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Issued Spring, 1989

University of Massachusetts at Boston Bulletin

Summer Sessions 1989

Division of Continuing Education
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The University

The University of Massachusetts at Boston is a public university, founded in 1964. Its faculty, distinguished both for scholarship and for dedication to teaching, works closely with students to maintain individual academic relationships. The resultant atmosphere of trust and camaraderie promotes rich opportunities for development in the pursuit of a superior education.

At UMass/Boston there are five separate colleges, as well a professional program, through which students work toward bachelor's degrees. The College of Arts and Sciences offers students sound training in the liberal arts and prepares them for careers in such fields as law, medicine, and scientific research. The College of Education offers teacher-preparation programs in early childhood, elementary, and secondary education. The College of Management offers academic preparation for professional and managerial careers in commerce, industry, government agencies, and other institutions. The undergraduate curriculum of the College of Nursing leads to the BS degree and entry into professional practice. The College of Public and Community Service prepares students — particularly experienced, older students — for careers in the social services. The Program in Physical Education and Fitness offers specializations for students with a wide range of interests.

The University also conducts graduate programs in the central liberal arts disciplines, in business administration, in education, in nursing, and in such new or developing areas of study as clinical psychology, computer science, human services, and environmental sciences.

UMass/Boston has two campuses: the Harbor Campus, which is three miles south of downtown Boston on Dorchester Bay, and the Downtown Center, in Boston's Park Plaza. For directions to these campuses, see page 26.

The University offers numerous undergraduate and graduate courses during its summer sessions, as well as a number of non-credit programs. The courses and programs for summer, 1989, are described in this bulletin.

The University	**2**
Summer Admission	**2**
Registration Form: Credit Courses	**2**
Academic Calendar	**3**
Registration: Summer Session Courses	**3**
Undergraduate Courses	**4**
Graduate Courses	**17**
Non-credit Programs	**21**
Registration Form: Non-Credit Courses	**21**
Summer Activities and Services	**22**
Fees and Payments; General Information	**22**
Academic Information	**24**
Important Offices and Locations	**25**
Campus Map and Travel Directions	**26**
Questions and Answers	**28**

Summer Admission

Students who have graduated from high school or who have earned certificates of general educational development are welcome to take summer session courses at the University of Massachusetts at Boston. College-bound high school juniors and seniors interested in beginning their college educations are also invited to take summer session courses. The University assumes that students registering for undergraduate courses will accurately assess their ability to do college-level work. It is the responsibility of students to meet prerequisites for individual courses.

To be admitted to any graduate-level course a student must have earned a bachelor's degree, unless other requirements are specified in this bulletin or unless written permission is obtained from the faculty member teaching the course.

Summer session courses carrying credit are equivalent in method and content to regular University courses. Credits earned in these courses may be applied toward UMass/Boston degree requirements and are ordinarily accepted as transfer credits by other colleges.

Summer enrollment does not imply acceptance into a degree program at the University of Massachusetts at Boston. Any student who wishes to matriculate at the University must submit an application through the Admissions Office. (If the student does matriculate, as many as sixteen undergraduate credits, or six graduate credits, earned during the summer, may be counted toward degree requirements.)

Courses in the College of Arts and Sciences (CAS) marked with the prefix "C" belong to the CAS Core Curriculum. These courses meet both a specific "Core" requirement for degree-seeking students in the College (though they are also open to non-degree-seeking students), and the CAS distribution requirement. Other courses do not meet the Core requirement but do meet the CAS distribution requirement; distribution areas are indicated in the descriptions of those courses. Some of the requirements for students who matriculated before the fall of 1985 are different from the requirements for students who have matriculated since that date. To insure that they take courses appropriate to their specific requirements, all CAS matriculated students must pick up advising materials concerning the Core Curriculum and the distribution requirement (as well as information about the CAS writing proficiency requirement), before registering for summer session courses. These materials are available at the College's Office of Academic Support and Advising (M/3/625, 929-8220) or at the office of the Division of Continuing Education (W/2/203, 929-7900). Prospective UMass/Boston students are advised to consult the UMass/Boston undergraduate catalog for further information about degree requirements. General information about UMass/Boston degree programs, and about the CAS Core Curriculum and distribution requirement, is available from the Office of New Student Services at 929-8600.

Registration Form — Continuing Education — Summer, 1989

Please be sure to provide the numbers requested below. They are needed for coding purposes.

Social Security # ___ — ___ — ___ UMass/Boston ID # (if any):

Name Last First Middle Initial

Address No Street City State Zip

Student Status

O Graduate O Undergraduate ___ Bachelor's Degree Received From

Current UMass/Boston student?

O Special O Matriculated ___ Major

Studying in UMass/Boston's RN Program?

O Special O Matriculated

Student at other college or university?

O Yes O No If Yes, where?

Sex

O Male O Female

Date of Birth Mo. Day Year

Residency Status

O In State O Out of State O Foreign

Veteran Status

O Veteran O Non-veteran

Student Visa

O Yes O No

Daytime Phone: ( )

Evening Phone: ( )

Ethnic Survey Information (Required by Federal Government)

A. American Indian/Alaskan Native
B. Black Non-Hispanic
C. Asian or Pacific Islander
D. Hispanic
E. Non-resident Alien
F. White Non-Hispanic
G. Do not wish to report
H. Cape Verdean

Course Selections

Sched. No.	Course No.	Title	Starting Date	Credits		Course Fee/Credit		Lab Fee (if any)		Total Course & Lab Fee
					×		+		=	
					×		+		=	
					×		+		=	
					×		+		=	

MasterCard and VISA Only

The University of Massachusetts at Boston, Division of Continuing Education, will accept MasterCard or VISA for payment of fees. If you would like to make use of this service, please provide the information requested.

Account No.

Expiration Date

Student's Name (Print)

Student's Signature

Print name of person to whom card was issued if different from above.

If a student withdraws or a course is cancelled, the refund will be made only as a credit to the student's MasterCard or VISA account.

Full payment must accompany all registrations.

Method of Payment

O VISA O MasterCard
O Check O Other

Make checks payable to University of Massachusetts—Continuing Education

Send checks and forms to:
Division of Continuing Education
Summer Session Registration
Healey Library, 2nd Floor Lobby
University of Massachusetts at Boston
Boston, MA 02125-3393

For Office Use
Rec'd: Date:
Batch: Bank No.:

Course Fees

Undergraduate	$65.00/credit
Graduate	$80.00/credit

Please Note:

This form is to be used only when registering for credit courses. To register for non-credit courses, please use the form on page 21

Please calculate payment below.

Course and Lab Fees (total)*	
Total Service Fees	$58.25
Additional Fees	
Subtotal	
Late Fee (if applicable)	$25.00
Total Payment Enclosed	

* Remember to make out a separate check for the total course and lab fee for each course.

When you use this form to register by mail, your cancelled checks will be your receipt.

Improperly completed forms and/or checks cannot be accepted, and therefore will be returned unprocessed.

Academic Calendar

	First Six-Week Session May 30-July 12	First Four-Week Session May 30-June 29	Second Six-Week Session July 17-August 24	Second Four-Week Session July 5-August 3
Registration Begins	April 3 (M)	April 3 (M)	April 3 (M)	April 3 (M)
Holiday (Registration Center closed)	April 17 (M)	April 17 (M)	April 17 (M)	April 17 (M)
Registration Deadline	May 12 (F)	May 12 (F)	June 30 (F)	June 23 (F)
Late Registration*	May 15-17 (M-W)	May 15-17 (M-W)	July 5-6 (W,Th)	June 26 (M)
Waiver Registration**	May 15-17 (M-W)	May 15-17 (M-W)	July 5-6 (W,Th)	June 26 (M)
Registration Center Closed for Processing	May 18,19,22 (Th,F,M)	May 18,19,22 (Th,F,M)	July 3,7,10 (M,F,M)	—
Late Registration*	May 23 (Tu)	May 23 (Tu)	July 11 (Tu)	June 28 (W)
Registration Center Closed for Processing	May 24-26 (W-F)	May 24-26 (W-F)	July 13-14 (Th,F)	—
Holiday (Registration Center closed)	May 29 (M)	May 29 (M)	May 29 (M)	May 29 (M)
Classes Begin	May 30 (Tu)	May 30 (Tu)	July 17 (M)	July 5 (W)
Add/Drop Deadline	June 2 (F)	June 2 (F)	July 21 (F)	July 12 (W)
Pass/Fail and Withdrawal Deadline	June 23 (F)	June 16 (F)	August 11 (F)	July 21 (F)
Holiday (Registration Center closed)	July 4 (Tu)	—	July 4 (Tu)	July 4 (Tu)
Last Day of Class and Final Exam	July 12 (W)	June 29 (Th)	August 24 (Th)	August 3 (Th)

*Walk-in only. A $25 late fee will be assessed for late registrations.

Note: Computer science courses and other special courses and programs may have different starting and ending dates. Please be sure to consult the description of the course or program in which you are interested for specific information.

**Walk-in only. Registration for students who qualify to receive total or partial course and/or fee waivers will be conducted only during the period specified for waiver registration for the course or courses they wish to take. Students registering with waivers during this period will not be charged a late fee. (See Course Fee Waiver and Remission Policy, p. 23).

Registration for Summer Session Courses

Advance Registration for all Sessions — April 3-May 12

Students are urged to register as early as possible before the summer sessions begin, both to assure themselves places in courses of their choice, and to assure that the courses they wish to enroll in will be taught. Students can register during the period from April 3 through May 12 for courses scheduled to begin at any time during the summer. After that date, late registration for the first six-week session and the first four-week session is still possible, though not advisable (see "Late Registration" below). Registration for the second six-week session and the second four-week session is possible without penalty before the registration deadlines indicated in the academic calendar. But students should be aware that one week before each session begins, all courses in that session that have not reached minimum enrollment will be cancelled.

Registration by Mail

To register by mail for summer session courses, fill out the registration form on page 2 and send it with payment to:

Summer Session Registration
Healey Library, 2nd Floor Lobby
University of Massachusetts at Boston
Boston, MA 02125-3393

Registrations will be accepted on the basis of available space. Full payment must accompany the registration form (see "Fees and Payments"). Registrations must be postmarked by the registration deadlines indicated in the Academic Calendar.

Registration by Telephone

Students wishing to pay course and service fees by using MasterCard or VISA may register by telephone. To do so, call **617 929-7933.** Please do not call on dates (indicated in the Academic Calendar) when the Registration Center is closed for processing. Note: Unfortunately, telephone registration is available only to students using MasterCard or VISA.

Walk-In Registration

Students who would rather register in person may do so according to the schedule in the Academic Calendar. Walk-in registration will take place at the Summer Session Registration Center. Please note that walk-in registration will not be available on dates (indicated in the Academic Calendar) when the Registration Center is closed for processing.

Summer Session Registration Center location and hours:
2nd Floor Lobby, Healey Library, Harbor Campus:
M-Th 8:30am-6:00pm, F, 9:00am-4:00pm

Late Registration

Late registration will take place at the Summer Session Registration Center (see location above) during the periods listed in the Academic Calendar, and also up to the add/drop deadline for each session. Students registering during the late registration period must pay a $25.00 fee and should be aware that courses they wish to take make be filled or cancelled.

Further Information

For further information about registering for summer session courses, call **617 929-7900.**

Spring, 1989
Volume 9, Number 3

The University of Massachusetts at Boston Bulletin (U.S.P.S. 566-090) is published quarterly and distributed free of charge by the University of Massachusetts at Boston, Harbor Campus, Boston, Massachusetts 02125-3393. Second-Class Postage Paid at Boston, MA 02109. Postmaster: Send address changes to: The University of Massachusetts at Boston, Harbor Campus, Boston, Massachusetts 02125-3393.

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The University of Massachusetts at Boston is an affirmative action/equal opportunity employer and prohibits discrimination on the basis of race, color, sex, age, religion, national origin, sexual orientation or preference, handicap condition, or veteran status in its employment, in the recruitment, admission, and treatment of students, and in its policies and programs, as required by federal and state laws and regulations. All inquiries regarding Title IX of the Educational Amendments of 1972 and/or Section 504 of the Rehabilitation Act of 1973 may be directed to the Director of Affirmative Action, University of Massachusetts at Boston, Harbor Campus, Boston, MA, 02125, 617 929-7075. Inquiries regarding the application of the non-discrimination policy may also be directed to the Coordinator or the Assistant Secretary for Civil Rights, US Department of Education.

The University of Massachusetts at Boston is accredited by the New England Association of Schools and Colleges, which accredits schools and colleges in the six New England states. Membership in the Association indicates that the institution has been carefully evaluated and found to meet standards agreed upon by qualified educators. The University of Massachusetts at Boston is a member of the North American Association of Summer Sessions and the National University Continuing Education Association. The University is also a member of the Council of Graduate Schools of the United States and the Northeastern Association of Graduate Schools.

This bulletin is produced and printed at no cost to the Commonwealth of Massachusetts.

Want to sign up?
At the American Studies Summer Institute they'll consider what it takes.
See page 17.

Academic Skills

Academic Skills 034
Fundamentals of Algebra
This is a course for students who have mastered arithmetic but not beginning algebra. They are either students who never studied algebra in high school, or who studied it so long ago or so ineffectively that they must approach all introductory algebra topics as new rather than review material. The course's goals are to introduce students to algebraic notation and concepts so that they will be successful in Math 110, and in introductory physicial and social science courses; and to help them develop successful study and test-taking techniques. The course covers algebraic expressions — their simplification, combination, and evaluation; linear equations — how to solve them, graph them, and use them to solve word problems; scientific notation and proportions.
Note: The fee for this two-credit course is $195.
Prerequisite: Math Diagnostic Test only.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/020, Staff, Sched No 709250, 2 Credits

Accounting and Finance

AF 201
Personal Finance
Introduces students to planning and managing personal and family finances. Topics covered include insurance and estate planning, relationships with banks, issues in home ownership/real estate, the fundamentals of investing in stocks and bonds, tax planning, leasing as compared with buying automobiles, and financing college education.
This course cannot be counted toward finance or accounting concentrations in the College of Management.
Morning
May 30-July 12 MTuWTh 10:00-11:30am, Harbor Campus W/2/127, Mr Stabile, Sched No 702002, 3 Credits

AF 210
Financial Accounting
Presents the theory and techniques of financial accounting. The course encompasses the basic functions of collecting, processing, and reporting accounting information for interested third parties (e.g., owners, investors, and government) and enables students to analyze, interpret, and use accounting information effectively. Prerequisite: Sophomore standing.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/2/158, Mr Stabile, Sched No 702202, 3 Credits
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/009, Mr Angelovich, Sched No 702268, 3 Credits
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/009, Mr Angelovich, Sched No 702274, 3 Credits
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus W/2/158, Mr Eustace, Sched No 702252, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/2/158, Mr Lyken, Sched No 702452, 3 Credits
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/2/198, Mr Lyken, Sched No 702507, 3 Credits
July 17-August 24, MW 6:00-9:00pm, Downtown Center 509, Staff, Sched No 702557, 3 Credits

AF 211
Managerial Accounting
Presents the theory and techniques of managerial accounting, from the particular perspective of the manager. The course covers the identification and analysis of costs within the organization, and illustrates how managers use such knowledge for planning and control. Major topics include responsibility accounting, comprehensive and cash budgeting, and standard job order and process cost systems.
Prerequisite: AF 210.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/2/158, Mr Keith, Sched No 702757, 3 Credits
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/2/158, Mr Eustace, Sched No 702802, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/2/158, Mr Keith, Sched No 703006, 3 Credits
July 17- August 24, TuTh 6:00-9:00pm, Harbor Campus W/2/158, Mr Macquarrie, Sched No 703056, 3 Credits
July 17-August 24, MW 6:00-9:00pm, Downtown Center 510, Mr Macquarrie, Sched No 703101, 3 Credits

Note: Any student wishing to take AF 301 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed all course prerequisites with a C- (C minus) or better; and 3) must be in good academic standing. Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services before the last day of late registration for the summer session.
Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

AF 301
Introduction to Financial Management
(See note above.)
Introduces financial management (both short-term and long-term), specifically how an organization makes investment decisions, and how funds are raised for investing. The course also acquaints students with the various kinds of securities, and their differences, as well as with the operations of financial markets and institutions. Specific topics include the management of working capital, the time value of money, capital budgeting, the cost of capital, financial leverage and capital structure, and dividend policy.
Prerequisites: AF 210,211.
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/2/127, Mr Noorian, Sched No 703301, 3 Credits

American Studies

AmSt C202
The Twenties
This course examines the impact of World War I and the post-war social, economic, and political environment on particular areas of American life in the 1920s: the rise of social and political intolerance; the businessman as hero and anti-hero; the "lost" generation; the "New Woman" and the "New Negro."
Distribution Area: Historical and Cultural Studies.
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus M/1/213, Ms Raub, Sched No 704105, 3 Credits

AmSt 205
The Fifties
A look at the United States from the end of World War II until the election of John F. Kennedy, when America became the world's military and economic power. The course focuses on the ways in which the same system that created the unprecedented affluence of the time also undermined the satisfaction of the populace by creating new problems and new expectations about the nature of a "good society." The "silent fifties" were to set the stage for the "turbulent sixties." Topics include the Cold War, the Red Scare, work, consumerism, conformity, family life, race relations, youth, and popular culture, with special emphasis on the rise of "rock and roll." The material studied is taken from history, sociology, literature, autobiography, movies, popular music, and magazine advertisements.
Distribution Area: Historical and Cultural Studies
Midday/Afternoon
July 17-August 24, MW 1:30-4:30pm, Harbor Campus M/1/207, Mr Goff, Sched No 704555, 3 Credits

AmSt C206
The Sixties
The course focuses on protest and the role of youth. Who protested and why? Was the phenomenon of the sixties an aberration or part of a larger radical tradition in America? What was the impact on the seventies? Readings are drawn from the work of participants in the student, black, feminist, and peace protest movements, from the intellectuals who defended and attacked them, and from the growing body of retrospective, analytic, and historical literature which attempts to explain what really happened in that tumultuous decade. Films will be shown when appropriate.
Distribution Area: Historical and Cultural Studies.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/3/617, Mr Atwood, Sched No 704305, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus M/1/213, Mr Atwood, Sched No 704355, 3 Credits

AmSt 310
Television in American Life
The American experience with television and its cultural, political, and economic implications. Topics include technological innovation, entrepreneurship, the changing cultural content of "prime-time" programming, and public broadcasting cable system capabilities.
Midday/Afternoon
May 30-July 12, MW 1:30-4:30pm, Harbor Campus M/1/207, Ms Lindsey, Sched No 704755, 3 Credits

AmSt 380
The Kennedys of Boston
This course provides a background on the Kennedys and their times. It analyzes some of the political and cultural processes of which the Kennedys were a part, and in particular traces the rise of the family in the context of the Boston Irish. Audio-visual material is used where appropriate to examine the role played by the media, that is, print, film, and television, then and now, in forming popular images of the Kennedy family.
Morning
July 17-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus M/3/617, Mr Danker, Sched No 704955, 3 Credits
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus M/3/617, Mr Danker, Sched No 705004, 3 Credits

Analysis and Communication in Management

Note: any student wishing to take ACM 210 or ACM 211 must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university.

ACM 210
Critical Thinking and Writing
Offers instruction and practice in the writing of persuasive, analytical prose. The course encourages students to write with the clarity and coherence necessary for managerial problem solving. It is required for students who have not passed the College of Management Writing Proficiency Examination by the time they have earned 30 credits.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/1/420, Ms Woodward, Sched No 700404, 3 Credits

ACM 211
Writing and Managerial Thinking
Builds upon the critical thinking and writing skills students develop in ACM 210, and extends those skills to managerial thinking and writing. The course emphasizes clarity and structure in case analysis and project reports.
Prerequisite: ACM 210.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/1/619, Ms Doreski, Sched No 700604, 3 Credits

Anthropology

Anth C100
Culture and Human Behavior
Our own daily behavior is often taken for granted as rational or logical, while the behavior of other groups is often seen as "strange" and incomprehensible. Looked at closely, however, the apparently strange behavior of others may become more understandable, while our own behavior may seem less rational and less ordinary. Focusing comparatively on the contemporary United States and on non-western societies, this course examines selected human activities, such as eating, play and sport, and making a living. The aim is to learn how the concepts and methods of sociocultural anthropology, as one of the social and behavioral sciences, can help us understand human behavior, both our own and that of people in other times and places.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/1/417, Mr Fazel, Sched No 705604, 3 Credits

Anth 102
Introduction to Archaeology and Biological Anthropology
The study of the biological and cultural heritage of humans. Topics include primate and human evolution, evolution of prehistoric cultures, and human adaptation and variation.
Distribution Area: Natural Sciences.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus M/1/418, Mr Fazel, Sched No 705804, 3 Credits
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus M/1/418, Staff, Sched No 705854, 3 Credits

Anth 103
Introduction to Cultural Anthropology
The study of recent and contemporary human societies in cross-cultural perspective. Through the use of ethnographic accounts, the course analyzes and compares variations in processes of cultural change, and in cultural adaptations. Note: Anth 102 is not a prerequisite for Anth 103.
Distribution Area: Social and Behavioral Sciences.
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus M/1/418, Ms Haeri, Sched No 706058, 3 Credits

Anth 211
Human Origins
An introduction to the study of man's biological origins with emphasis on the fossil record, primate analogues of human behavior, and the variety and diversity of modern man, including the adaptive significance of this variability.
Prerequisite: Anth 102, or permission of instructor.
Distribution Area: Natural Sciences.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/1/418, Mr Gibbons, Sched No 706258, 3 Credits

Special Program: Anthropological Field School at Plimoth Plantation

Anth 485
Field Research in Archaeology
This summer the Department of Anthropology at the University of Massachusetts at Boston is conducting a six week archaeological field school in conjunction with Plimoth Plantation, focusing on Historical Period sites in the Plymouth area and including field work at the Plantation itself. Students receive training in all phases of archaeological survey and excavation as well as in laboratory analysis. Weekly lecture topics include an overview of historical archaeology today, the history of Plymouth and of Plimoth Plantation, documentary analysis, archaeological field work, and collections management.
Prerequisite: Permission of instructor.
Students interested in this course should contact Professor Stephen Mrozowski at the Anthropology Department, 617 929-8150. Application deadline: May 1, 1989.
May 30-July 12. By arrgt. Sched No 706458, 6 Credits.

Art

Art C100
The Language of Art
The course teaches students to begin to understand the processes of artistic creation. It enables the student to grasp the expressive content of works of art in a wide variety of media and to analyze how the artist creates his/her effect. It is not an historical survey. Through lectures, discussions, field trips, and museum visits, the student studies paintings, sculptures, and buildings, with examples chosen as often as possible from the Boston area. The course addresses such concepts as rhythm, pacing, elements of stability versus change, and the possibilities of differing interpretations of subject matter through formal variations. It offers a solid introduction to the arts by developing the student's ability to see, and to analyze form viewed as the result of aesthetic and interpretive decisions.
Distribution Area: The Arts.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus M/3/407, Mr Tucker, Sched No 706903, 3 Credits
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus M/3/430, Ms Calo, Sched No 706919, 3 Credits

Art C199
Visual Thinking
This course serves as an introduction to visual arts by emphasizing how one thinks visually. It provides training and exploration in the organization of sensory experiences — experiences which are already ordered in forms of art and design, or which are encountered haphazardly in the world around us. Writing assignments will complement studio exercises, lectures, and selected readings dealing with such issues as space, light, color, and composition.
Distribution Area: The Arts.
Midday/Afternoon
July 17-August 24, TuWTh 1:30-4:15pm, Harbor Campus H/8/016, Staff, Lab Fee: $25.00, Sched No 707157, 3 Credits
Evening
May 30-July 12, MTuW 6:00-8:45pm, Harbor Campus H/8/016, Ms Weisberg, Lab Fee: $25.00, Sched No 707107, 3 Credits

Art 202
Renaissance to Modern Art
An historical survey of Western art and architecture from the fifteenth century to the twentieth century. The course deals with different aspects of the art of the Renaissance in Italy and the North, the Baroque and Rococo, Neoclassicism and Romanticism, Realism and Impressionism, and Post-Impressionism. The last few sessions introduce, through broad surveys, the art of major non-Western cultures: African, Oriental, and Amerindian.
Distribution Area: The Arts.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/3/407, Ms Calo, Sched No 707218, 3 Credits

Art 210
American Art in Boston
This course surveys American painting and architecture from colonial times to the early twentieth century, with a particular emphasis on art and architecture in the Boston area. Classes consist of both slide lectures and field trips, to examine American paintings and sculpture at the Museum of Fine Arts and to visit such significant Boston buildings as Trinity Church and the Boston Public Library. Students are introduced to some major movements in American art (Neoclassicism, Romanticism, Realism), to the work of such leading Boston artists as Washington Allston, and to the artistic taste of Boston patrons.
Distribution Area: The Arts.
Midday/Afternoon
May 30-July 12, TuTh 1:30-4:30pm, Harbor Campus M/3/407, Ms Bedell, Sched No 707557, 3 Credits

Art 250
Art of the Twentieth Century
An analysis of the art of the twentieth century involves fundamental issues of form and content shared by all the arts. Taking a threefold approach — formal, critical, and historical — this course examines the development of modern painting, sculpture, and architecture, as well as the ascendant art forms of photography, video, and performance. It analyzes general theories and specific works in detail. Through class discussions, reading assignments, papers, and field trips, the student learns that the formal problems posed by twentieth-century visual art are closely related to those in literature, music, and theatre, for they are problems of structure and definition, harmony and rhythm, diction and coherence. The student thus develops critical capabilities that he or she can apply to works by Picasso or Eliot, Matisse or Ravel.
Prerequisite: Sophomore standing.
Distribution Area: The Arts.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/3/407, Mr Tucker, Sched No 707757, 3 Credits

Art 265
Film Analysis
Any thorough and systematic study of film, because of its essentially interdisciplinary nature, must address concerns and problems common to other forms of artistic expression such as literature, theatre, painting, and photography. The particular approach taken in this course to the study of film offers an encounter with the works that goes beyond the conventional experience of theatre and TV viewing and employs special methods of projection that permit detailed analysis by means of the use of slow motion and still frame techniques. The films thus studied include examples of classic Hollywood, contemporary American, and foreign feature films, and the documentary. The course is not primarily historical in emphasis; rather its concerns are the visual language of film, its use as the vehicle for narrative and theme, and major film types and styles. Special attention is given to the analysis and interpretation of sequences from the films studied in class.
Prerequisite: Sophomore standing.
Distribution Area: The Arts.
Evening
July 17-August 24,TuWTh 6:00-9:00pm, Harbor Campus M/3/407, Mr Putnam, Lab Fee: $20.00, Sched No 707957, 3 Credits

Art 281
Drawing I
Basic materials and techniques, with emphasis on drawing as a primary means for the description and interpretation of human beings and their environment. Problems in still life, landscape, and life drawing.
Prerequisite: One 100-level art course.
Distribution Area: The Arts.
Evening
May 30-July 12, MTuWTh 6:00-8:45pm, Harbor Campus H/8/013, Ms Ackley, Sched No 708090, 3 Credits

Art 293
Photography I
An introduction to basic issues in photography. The mechanics of the camera, the techniques of the darkroom, and matters of creative and personal import are addressed through illustrated lectures, class critiques, and assigned lab hours. Some attention is given to the history of photography.
Prerequisite: One 100-level art course. At least one lab is required.
Distribution Area: The Arts.
Midday/Afternoon
Lect: May 30-July 12, TuWTh 12:00noon-4:00pm, Harbor Campus H/8/025, Ms Swartz, Sched No 708351, 4 Credits
Lab: May 30-July 12, MF 12:00noon-4:00pm, Harbor Campus H/8/025, Staff, Lab Fee: $30.00, Sched No 708406

Art 387
Printmaking Workshop: Silkscreen
This course provides students with the necessary techniques and skills required to create serigraphs. Working with water-soluble inks and solvents, the class experiments with the graphic possibilities of this process, in order to create a group project that combines individual images into a cohesive whole. Through lectures and field trips, students also learn about the potential commercial possibilities of silkscreen. The course is taught by visiting artist Robert Chao, a master printer who has studied in Uruguay, Puerto Rico, and Mexico City. Since relocating to Boston in 1984, Mr. Chao has been the recipient of three grants from the Massachusetts Council on the Arts and Humanities.
Prerequisites: Three art courses including drawing.
Midday/Afternoon
July 17-August 24, MTuTh 12:30-4:30pm, Downtown Center 1021, Mr Chao, Sched No 708606, 4 Credits
Lab: July 17-August 24, W 12:30-4:30pm, Downtown Center 1021, Lab Fee: $50.00, Sched No 708656

Biology

Biol 101
The Basis of Life
The uniqueness of life within the physical universe. The matter and energy of life, the genetic code, molecular biology, and the origin and evolution of life. An overview for students in the humanities and social sciences of those features that distinguish living organisms from non-living things. No background in the natural sciences is required.
Distribution Area: Natural Sciences.
Morning
May 30-June 29, MTuWThF 8:15-9:50am, Harbor Campus M/1/409, Mr Bradley, Sched No 710457, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/1/004, Ms Halpern, Sched No 710502, 3 Credits

Biol 102
Evolutionary Biology
Designed for students in the social sciences and humanities. Those areas of genetics, ecology, and evolution that form a unified approach to the study of organisms and populations. No background in the natural sciences is required.
Distribution Area: Natural Sciences.
Morning
July 5-August 3, MTuWThF 8:15-9:50am, Harbor Campus M/1/409, Mr Wilkes, Sched No 710702, 3 Credits

Biol 108
Introduction to Nutrition
Introduction to the elements of nutrition with emphasis on nutrition for humans: examination of foodstuffs and nutritional quality, physiology of food utilization, food quality regulations, and the global ecology of food production. No background in the natural sciences required.
Distribution Area: Natural Sciences.
Morning
May 30-July 12, MTuWTh 8:00-9:45am, Harbor Campus W/1/004, Ms Harrison, Sched No 710902, 3 Credits
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus W/1/004, Mr Bradley, Sched No 711001, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/004, Ms Halpern, Sched No 710952, 3 Credits
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/2/200, Mr Toto, Sched No 711051, 3 Credits

Biol 111
General Biology I
An integrated course stressing the principles of biology. Life processes are examined primarily at the molecular and cellular levels. Intended for students majoring in biology or for non-majors who wish to take advanced biology courses.
Distribution Area: Natural Sciences.
Morning
Lect: May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/1/409, Mr Murray, Sched No 711251, 4 Credits
Lab: May 30-July 12, MW 12:00-3:00pm, Staff, Lab Fee $20.00, Sched No 711356
Evening
Lect: May 30-July 12, MW 6:00-9:00pm, Harbor Campus M/1/409, Mr Murray, Sched No 711306, 4 Credits
Lab: May 30-July 12, TuTh 6:00-9:00pm, Staff, Lab Fee $20.00, Sched No 711401,

It won't be all Greek to you! Learn more in Clscs 284, Greek and Roman Mythology. See page 6.

See "Location Key" on page 26 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Biol 112
General Biology II
An integrated course stressing the principles of biology. Life processes are examined primarily at the organismal and population levels. Intended for students majoring in biology or for non-majors who wish to take advanced biology courses.
Prerequisite: Biol 111.
Distribution Area: Natural Sciences.
Morning
Lect: July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus M/1/409, Mr Fregeau, Sched No 711601, 4 Credits
Lab: July 17-August 24, MW 12:00noon-3:00pm, Staff, Lab Fee: $20.00, Sched No 711706
Evening
Lect: July 17-August 24, MW 6:00-9:00pm, Harbor Campus M/1/409, Ms Scholer, Sched No 711651, 4 Credits
Lab: July 17-August 24, TuTh 6:00-9:00pm, Staff, Lab Fee: $20.00, Sched No 711756

Biol 207
Anatomy and Physiology I
A study of the human organism, correlating structure and physiological mechanisms. Emphasis on skin, the special senses, and the skeletal, articular, muscular, nervous, and endocrine systems. Required for nursing students and physical education/fitness majors.
Prerequisite: Biol 111 or equivalent.
Distribution Area: Natural Sciences.
Morning
Lect: May 30-June 29, MTuWTh 9:00-11:00am, Harbor Campus M/2/008, Mr Guimond, Sched No 712150, 4 Credits
Lab: May 30-June 29, MW 11:00am-2:00pm, Mr Dean, Lab Fee: $20.00, Sched No 712205
Lab: May 30-June 29, TuTh 11:00am-2:00pm, Mr Dean, Lab Fee: $20.00, Sched No 712255
Lab: May 30-June 29, TuTh 6:00-9:00pm, Ms Joyce-Bird, Lab Fee $20.00, Sched No 712300

Biol 208
Anatomy and Physiology II
A continuation of Biol 207. Emphasis on the digestive, circulatory, respiratory, excretory, and reproductive systems. Required for nursing students and physical education/fitness majors.
Prerequisite: Biol 207.
Distribution Area: Natural Sciences.
Morning
Lect: July 5-August 3, MTuWTh 9:00-11:00am, Harbor Campus M/2/008, Ms Joyce-Bird, Sched No 712500, 4 Credits
Lab: July 5-August 3, MW 11:00am-2:00pm, Ms Joyce-Bird, Lab Fee: $20.00, Sched No 712550
Lab: July 5-August 3, TuTh 11:00am-2:00pm, Ms Joyce-Bird, Lab Fee: $20.00, Sched No 712605
Lab: July 5-August 3, TuTh 11:00am-2:00pm, Mr Dean, Lab Fee: $20.00, Sched No 712655

Biol 209
Medical Microbiology
An introduction to viruses, bacteria, fungi, and protozoa which may be pathogenic to humans and animals; and to immunology, epidemiology, and clinical microbiology. The laboratory introduces sterile techniques, maintenance of pure cultures, isolation, identification, and immunological methods.
Note: This course is for nursing majors. Biology majors should take Biol 334 for microbiology.
Prerequisites: Biol 111; Chem 103 and 104, or Chem 107 and 108, or equivalent.
Distribution Area: Natural Sciences.
Evening
Lect: July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/004, Staff, Sched No 712855, 4 Credits
Lab: July 17-August 24, MW 2:00-5:00pm, Staff, Lab Fee: $40.00, Sched No 712900
Lab: July 17-August 24, TuTh 6:00-9:00pm, Staff, Lab Fee: $40.00, Sched No 712950

Biol 315
Introduction to Immunology
A study of the processes by which higher animals defend themselves against foreign substances and infective agents. This study includes both basic and clinical sciences.
Prerequisites: Chem D104 or D108, or permission of instructor.
Morning
May 30-July 12, MTuWThF 10:00-11:30am, Harbor Campus S/2/064, Ms Harrison, Sched No 713154, 3 Credits

Special Program: Marine Biology on Nantucket Island

June 5-July 7
Every summer the Biology Department of UMass/Boston offers a small program of courses at the University's Field Station in Quaise. Students admitted to these courses are housed at the Field Station, located on 114 acres of moor and private beach about four miles from the town of Nantucket. Students interested in these courses should contact Professor John Ebersole of the Biology Department, at 617 929-8400. Application deadline: May 1, 1989.

Biol Z200
Field Biology on Nantucket: Coastal Ecology
Investigations into the natural history and community dynamics of salt marshes, seagrass beds, mudflats, and beaches. Field exercises on the adaptations and interactions of marine organisms are emphasized.
Prerequisite: Permission of instructor.
June 5-July 7, By Arrgt, Nantucket, Lab Fee: $20.00, Sched No 711956, 5 Credits

Biol 346
Marine Ecology
The organisms of marine and coastal habitats and their adaptations to the physiochemical parameters of marine environments. The structure and function of marine communities and ecosystems. Laboratory and field work.
Prerequisites: Biol 211 and 252 or permission of instructor.
July 10-August 18, By Arrgt, Nantucket, Lab Fee: $20.00, Sched No 713354, 5 Credits

Chemistry

Chem 103
Chemical Principles I
Introduction to the fundamental principles of chemistry including stoichiometry, elementary thermodynamics, atomic and molecular structure, bonding theories, and the periodic table. Laboratory work presents an introduction to quantitative analytical techniques. This course consists of three parts — lecture, laboratory, and discussion — all of which must be taken concurrently.
Distribution Area: Natural Sciences
Morning
Lect: May 30-July 12, MTuWTh 10:00-11:15am, Harbor Campus S/1/006, Mr Sardella, Sched No 713954, 4 Credits
Disc: May 30-July 12, Tu or W or Th 11:30am-12:20pm, Harbor Campus S/1/006; Assignments will be made at the first class meeting. For information call 929-7548.
Lab: May 30-July 12, MW 12:30-3:30pm, Harbor Campus S/2/039, Mr Pappas, Lab Fee: $45.00, Sched No 714053
Lab: May 30-July 12, TuTh 12:30-3:30pm, Harbor Campus S/2/039, Mr Gello, Lab Fee: $45.00, Sched No 714108
Evening
Lect: May 30-July 12, MTuWTh 5:30-6:45pm, Harbor Campus S/1/006, Mr Carter, Sched No 714003, 4 Credits
Disc: May 30-July 12, W 7:00-7:50pm, Harbor Campus S/1/006, Mr Carter, Sched No 714358
Lab: May 30-July 12, TuTh 7:00-10:00pm, Harbor Campus S/2/039, Mr Hebard, Lab Fee: $45.00, Sched No 714158

Chem 104
Chemical Principles II
Introduction to states of matter and kinetic molecular theory, acids and bases, chemical kinetics, aqueous equilibria, oxidation-reduction, and a survey of the chemical properties of selected elements based on principles already introduced.
Prerequisite: Chemistry 103.
Distribution Area: Natural Sciences.
Morning
Lect: July 17-August 24, MTuWTh 10:00-11:15am, Harbor Campus S/1/006, Mr Mariani, Sched No 714558, 4 Credits
Disc: July 17-August 24, Tu or W or Th 11:30am-12:20pm. Harbor Campus S/1/006; Assignments will be made at the first class meeting. For information call 929-7548
Lab: July 17-August 24, MW 12:30-3:30pm, Harbor Campus S/2/039, Mr Mariani, Lab Fee: $45.00, Sched No 714653
Lab: July 17-August 24, TuTh 12:30-3:30pm, Harbor Campus S/2/039, Staff, Lab Fee: $45.00, Sched No 714708
Evening
Lect. July 17-August 24, MTuWTh 5:30-6:45pm, Harbor Campus S/1/006, Mr Reardon, Sched No 714603, 4 Credits
Disc: July 17-August 24, W 7:00-7:50pm, Harbor Campus S/1/006, Mr Reardon, Sched No 714958
Lab: July 17-August 24, TuTh 7:00-10:00pm, Harbor Campus S/2/039, Mr Reardon, Lab Fee: $45.00, Sched No 714758

Chem 107
Introduction to Chemistry I
A survey of the theoretical principles of general inorganic chemistry. Topics include atomic and molecular structure, bonding, chemical reactions, solution, pH, stoichiometry and radiochemistry.
Distribution Area: Natural Sciences.
Morning
Lect: May 30-July 12, MTuWTh 9:00-10:15am, Harbor Campus M/2/423, Mr Gelb, Sched No 715152, 4 Credits
Disc: May 30-July 12, Th 10:30-11:20am, Harbor Campus M/2/423, Mr Gelb, Sched No 715257
Lab: May 30-July 12, MW 10:30am-12:30pm, Harbor Campus, Mr Pappas, Lab Fee: $35.00, Sched No 715207

Chem 108
Introduction to Chemistry II
A brief survey of organic and biological chemistry. Topics include structure, nomenclature, and the nature of organic compounds. Emphasis is on preparation for biological applications. Carbohydrates, lipids, proteins, and nucleic acids are introduced. The structures and metabolism of important biochemical molecules are considered.
Prerequisite: Chem 107.
Distribution Area: Natural Sciences.
Morning
Lect: July 17-August 24, MTuWTh 9:00-10:15am, Harbor Campus M/2/423, Mr Lembo, Sched No 715457, 4 Credits
Disc: July 17-August 24, Th 10:30-11:20am, Harbor Campus M/2/423, Mr Lembo, Sched No 715552
Lab: July 17-August 24, MW 10:30am-12:30pm, Harbor Campus, Mr Lembo, Lab Fee: $35.00, Sched No 715502

Chem 253
Organic Chemistry I
An intensive survey of structure, reactions, and synthesis of the main classes of organic compounds. Laboratory illustrates the preparation, purification, and identification of organic compounds by classical and instrumental methods.
Prerequisite: Chem 104.
Distribution Area: Natural Sciences.
Morning
Lect: May 30-July 12, MTuWTh 10:00-11:15am, Harbor Campus S/2/009, Mr Cerny, Sched No 715752, 4 Credits
Disc: May 30-July 12, M or Tu or Th 11:30am-12:20pm, Harbor Campus S/2/009. Assignments will be made at the first class meeting. For information call 929-7548
Lab: May 30-July 12, MW 1:00-4:00pm, Mr Cerny, Lab Fee: $45.00, Harbor Campus, Sched No 715807
Lab: May 30-July 12, TuTh 1:00-4:00pm, Staff, Lab Fee: $45.00, Harbor Campus, Sched No 715857

Chem 254
Organic Chemistry II
A continuation of Chemistry 253.
Distribution Area: Natural Sciences.
Morning
Lect: July 17-August 24, MTuWTh 10:00-11:15am, Harbor Campus S/2/009, Ms Haeg, Sched No 716201, 4 Credits
Disc: July 17-August 24, M or Tu or Th 11:30am-12:20pm, Harbor Campus S/2/009. Assignments will be made at the first class meeting. For information call 929-7548
Lab: July 17-August 24, MW 1:00-4:00pm, Harbor Campus, Ms Haeg, Lab Fee: $45.00, Sched No 716251
Lab: July 17-August 24, TuTh 1:00-4:00pm, Harbor Campus, Staff, Lab Fee: $45.00, Sched No 716306

Classics

Clscs 284
Greek and Roman Mythology
The analysis, background, and lasting influence of Greek and Roman myths. Some consideration of the ancients' beliefs about divinity; worship and ritual practices. Both primary (ancient authors) and secondary (modern) sources are used.
Distribution Area: Philosophical and Humanistic Studies.
Midday
May 30-June 29, MTuWTh 11:45-1:45pm, Harbor Campus M/2/621, Staff, Sched No 717055, 3 Credits

Computer Science

Please note: All computer science (CS) courses have been recently renumbered by the Department of Mathematics and Computer Science. Their former codes and numbers are indicated in parentheses. For further information contact the Department.

CS 110P
Introduction to Computer Programming: Pascal
(Formerly Math D137P). An introduction to computer programming — the concepts involved in use of a higher level language and in the program development process. The goal of this course is proficiency in the design and implementation of programs of significant size and complexity. This course is quite demanding because of the length of the programming exercises assigned. This is the first course in the computer science sequence. CS 110 is taught using one of two programming languages, Pascal and FORTRAN-77. CS 110P (Pascal) is appropriate for prospective majors. CS 110F (FORTRAN) is appropriate for some pre-engineering students, who should consult the Engineering Program for course selection advice.
Note: Students who have taken CS 110P (Pascal) will not be granted credit for CS 110F (FORTRAN).
Note: The fee for this four-credit course is $285.
Prerequisite: Math Diagnostic Test.
Distribution Area: Mathematics and Computer Languages.
Morning
May 30-July 27, MTuTh 10:00-11:30am, Harbor Campus W/2/124, Staff, Lab Fee: $10.00, Sched No 719253, 4 Credits
Evening
May 30-July 27, MTuTh 6:00-7:30pm, Harbor Campus W/2/124, Staff, Lab Fee: $10.00, Sched No 719308, 4 Credits

CS 210
Intermediate Computing With Data Structures
(Formerly Math D138). Continuation of CS 110P. Topics include modularity, text files, input parsing, dynamic data structures; lists; pointers; queues; stacks; recursive algorithms; recursive data structures; trees, searching and sorting; software engineering methodology; optional topics as time permits.
Note: The fee for this four-credit course is $285.
Prerequisite: CS 110P (Math D137P) or permission of instructor.
Distribution Area: Mathematics and Computer Languages.
Morning
May 30-July 27, MTuTh 8:15-9:45am, Harbor Campus W/2/125, Staff, Lab Fee: $10.00, Sched No 719508, 4 Credits

CS 320
Applied Discrete Mathematics
(Formerly Math 330). An introduction to the mathematical structures used in computing: sets, mathematical induction, ordered sets, Boolean algebras, predicate calculus, trees, relations and lattice theory, formal theory of languages, and automata theory, finite fields, error-correcting codes. Proofs of theorems about these structures are constructive (algorithmic). Applications to computing are discussed.
Prerequisites: CS 210 (Math D138), Math D141, and Math 260; or permission of instructor.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/019, Staff, Sched No 719908, 3 Credits

Economics

Econ 101
Introduction to Microeconomics
A broad introductory survey in which special attention is given to the role of economic principles in analyzing and understanding current economic problems. Emphasis is placed on the functioning of markets and on examining the behavior of individual economic units such as the business firm and the consumer (microeconomics). Other areas of emphasis vary from section to section and may include industrial organization, income distribution, international trade, economics of the environment, and other topics.
Prerequisite: Math 110 or equivalent.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/054, Mr Millman, Sched No 721004, 3 Credits
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/054, Mr Walker, Sched No 721054, 3 Credits
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/1/054, Mr Walker, Sched No 721159, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/054, Mr Gershenberg, Sched No 721109, 3 Credits
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/054, Mr Millman, Sched No 721204, 3 Credits

Econ 102
Introduction to Macroeconomics
A broad introductory survey in which special attention is given to the role of economic principles in analyzing and understanding current economic problems. Emphasis is placed on examining the overall functioning of the economy and on dealing with such matters as unemployment, inflation, and recession. Other areas of emphasis vary from section to section and may include economics of government spending and taxation, economic development, alternative economic systems, and other topics.
Prerequisite: Econ 101, and Math 110 or equivalent.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/061, Mr Cotton, Sched No 721404, 3 Credits
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus W/1/054, Mr Morrison, Sched No 721559, 3 Credits
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/054, Mr Cotton, Sched No 721454, 3 Credits
July 17-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/054, Mr Abdullah, Sched No 721604, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/1/054, Mr Abdullah, Sched No 721509, 3 Credits
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/054, Mr Millman, Sched No 721654, 3 Credits

Econ 201
Microeconomic Theory
Analysis of consumer behavior, the theory of production equilibrium of the firm and the industry, market structures and the pricing of factors of production.
Prerequisites: Econ 101, and Math 129 or 130 (or placement into Math 135 or 140).
Distribution Area: Social and Behavioral Sciences.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/1/061, Mr Abdullah, Sched No 721959, 3 Credits
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/061, Mr Hussain, Sched No 721854, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/061, Mr Millman, Sched No 721909, 3 Credits

Econ 202
Macroeconomic Theory
Analysis of the forces determining the level and structure of gross national output, and those government policies which attempt to affect economic activities in the United States.
Prerequisites: Econ 101 and 102; Math 129 or 130 (or placement into Math 135 or 140).
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/061, Mr Martin, Sched No 722153, 3 Credits
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/061, Mr Martin, Sched No 722208, 3 Credits

Econ 205
Statistical Methods
A non-calculus introduction to statistical inference. A primary objective is to familiarize the students with common statistical concepts so they will be able to make intelligent evaluations of technical reports. The first half of the course covers probability, including common distributions. The second half studies hypothesis testing, including T-Tests, goodness of fit, contingency tables, analysis of variance, regression, and correlation.
Prerequisites: Econ 101 and 102; Math 129 or 130 (or placement into Math 135 or 140).
Distribution Area: Mathematics and Computer Languages.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus W/2/127, Mr Martin, Sched No 722408, 3 Credits
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/061, Mr Martin, Sched No 722458, 3 Credits

Econ 208
History of Economic Thought
A discussion of the rise and development of systematic economic thought. Both orthodox and heterodox economic ideas are studied in light of the social and historical context in which they developed. The course covers the origins of mercantilist thought, the physiocrats and classical political economy through Marx, the German historical school, the marginalist school, institutional economics. Keynesian and post-Keynesian thought.
Prerequisites: Econ 101 and 102.
Distribution Area: Social and Behavioral Sciences.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus W/2/124, Mr Wolozin, Sched No 722658, 3 Credits

Econ 210
Introduction to Marxist Analysis
An introduction to Marxist economic analysis, giving students an initial exposure to the basic concepts and methods of analysis of Marxist economics. Several themes and concepts run throughout the course; these include the processes of alienation and exploitation, the operation of contradictions and the role of dialectics, and the role of the state in capitalistic societies.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/2/124, Mr Walker, Sched No 722858, 3 Credits

Econ 331
Money and Financial Institutions
An economic analysis of financial institutions and markets in the American economy. Institutional and economic factors in the determination of the money supply are studied. Included are the commercial banking system and the money and capital markets. Policy making, both formulative and implementative, by the central bank is emphasized. Current policy issues are debated.
Prerequisites: Econ 101 and 102.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/060, Mr Abdullah, Sched No 723052, 3 Credits

Econ 335
International Economics
The theory of international trade; theory and practice of commercial policy; international finance: the balance of payments, adjustment mechanisms, and alternative monetary systems.
Prerequisites: Econ 101 and 102.
Midday/Afternoon
July 17-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/061, Mr Hussain, Sched No 723307, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/1/061, Mr Gershenberg, Sched No 723252, 3 Credits

Econ 336
Economic Development
The economic meaning of underdevelopment, evaluation of alternative "strategies" for economic growth, the role played by different kinds of resources, and interaction of the problems of underdeveloped countries of Africa, Asia, and Latin America with the policies of the developed countries.
Prerequisites: Econ 101 and 102.
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/060, Mr Morrison, Sched No 723507, 3 Credits

Econ 350
The Political Economy of Aging and Retirement
This course concentrates on the economic implications and problems of an aging society. It addresses the relationship between economics and other disciplines (sociology, psychology, political science, the law, management). Concerns include the status of the elderly; health and welfare problems; retirement and pensions; fiscal and macroeconomic implications and problems; and alternative occupations.
Prerequisites: Econ 101 and 102.
Midday/Afternoon
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/041, Mr Wolozin, Sched No 723707, 3 Credits

Econ 390
Labor Market Economics
This course deals with labor as an economic resource. It is a broadly based course covering the main problems and issues in labor markets. Primarily a non-institutional course, it gives the student a foundation for further investigation into particular aspects of the labor economics field.
Prerequisites: Econ 101 and 102.
Morning
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus W/1/061, Mr Walker Sched No 723907, 3 Credits

Engineering

Engin 103
Introduction to Engineering
This course, required for all freshman engineering students, introduces them to a number of areas in this field by presenting various engineering design problems. It also deals with the ethical problems that engineers face in the course of their work.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus S/2/065, Mr Jaffari, Sched No 730908, 3 Credits

Engin 200
Systems Analysis I
(Electrical Engineering)
Physical characteristics and mathematical models of system elements; techniques for writing and solving system dynamic equations, with application to electronic circuits and other types of systems.
Prerequisite: Sophomore standing, engineering major.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus S/2/065, Mr Lele, Sched No 731102, 3 Credits

Engin 201
Digital Systems Theory
(Electrical Engineering)
An introduction to the theory of digital circuits stressing general techniques for the analysis and synthesis of combinational and sequential logic systems.
Note: Students taking Engineering 201 cannot receive credit for Physics 374.
Prerequisites: Sophomore standing, engineering major.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus S/2/065, Mr Lele, Sched No 731302, 3 Credits

Engin 211
Systems Analysis II
Concepts relating to transfer functions; digital and analog solutions of system equations, time and frequency domain analysis techniques with use of the Laplace transformation.
Prerequisite: Engin 200.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus S/2/065, Mr Kanetkar, Sched No 731502, 3 Credits

Engin 212
Active Networks I
Active network theory, biasing, device modes and linear equivalent circuits; multispace feedback, tuned and power amplifiers; power supplies, regulators and active switches.
Prerequisite: Engin 200.
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus S/2/065, Mr Kanetkar, Sched No 731702, 3 Credits

Engin 271
Circuit Analysis Laboratory
An introductory electrical measurements and linear circuit analysis laboratory to accompany the first semester sophomore-level electrical engineering courses. Topics include voltage and current division, Thevenin's Theorem, operational amplifiers, first order circuits, second order circuits, and phase measurements.
Prerequisite or corequisite: Engin 200 or permission of the instructor.
Midday/Afternoon
Lab: May 30-July 12, W 12:00noon-2:30pm, Harbor Campus, Ms Rao, Lab Fee: $10.00, Sched No 731902, 1 Credit

Please be sure that you enter the correct schedule number and starting date for each course when you complete your registration form. Improperly completed forms cannot be accepted, and therefore will be returned unprocessed.

Engin 272
Active Circuits Laboratory
An electrical measurements laboratory to accompany the second semester sophomore-level electrical engineering courses: Systems Analysis II and Active Networks I. Topics include power and phase measurements, frequency response, transformers, Fourier series, transistor configurations, digital circuits.
Prerequisite: Engin 271.
Prerequisites or corequisites: Engin 211 and Engin 212, or permission of instructor.
Midday/Afternoon
July 17-August 24, W 12:00noon-2:30pm, Harbor Campus, Ms Rao, Lab Fee: $10.00, Sched No 732106, 1 Credit

Engin 282
Active Networks Laboratory I
An electronics laboratory to accompany the second semester sophomore level electrical engineering course, Active Networks I. Topics include diode and transistor circuits, operational amplifiers and linear IC, power supplies, resistors, and active switches.
Corequisite: Engin 212.
Prerequisite: Engin 271.
Evening
Lab: July 17-August 24, W 6:00-9:00pm, Harbor Campus, Ms Rao, Lab Fee: $15.00, Sched No 732306, 1 Credit

English

Note: Freshman English (English 101 and 102) is prerequisite for all English courses above the 100 level. For non-majors, one 200-level English course is prerequisite for all 300- and 400-level English courses. These requirements may be modified or waived for certain courses; see the following course descriptions for such changes. The student who is strongly motivated to take a course for which he or she has not satisfied the prerequisites should contact the instructor for advice and permission.

It is greatly to the advantage of the student to be placed in the proper course. To ensure placement in the right course, each student is required to take an English Placement Test before being admitted to English 101. The test will be given at the following times:
Wednesday, May 10, 11:30am-1:30pm, W/4/Student Affairs Conference Room
Wednesday, May 10, 5:00pm-8:00pm, W/4/Student Affairs Conference Room
Friday, May 12, 11:30am-1:30pm, W/1/057
Tuesday, May 30, 3:00pm-6:00pm, W/1/004
Thursday, July 6, 11:30am-1:30pm, W/1/004
Thursday, July 6, 5:00pm-8:00pm, W/1/009
Monday, July 17, 11:30am-1:30pm, W/1/004

Engl 101
Freshman English I
Small class instruction and practice in grammar, rhetoric, and the articulation of logical thought. Practice in writing for college courses on various kinds of topics, many from experience and observation, chosen to develop the student's confidence and ability. Readings and materials vary from section to section, but all sections require a minimum of eight 600-word papers.
Note: This course satisfies the first half of the College of Arts and Sciences writing requirement.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/012, Ms Eisenthal, Sched No 726759, 3 Credits
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus W/1/012, Ms Walsh, Sched No 726854, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/1/019, Mr Hurley, Sched No 726804, 3 Credits
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/019, Ms De Alba, Sched No 726909, 3 Credits

Engl 102
Freshman English II
Continuation of Engl 101, with emphasis on topics and writing assignments of the kinds encountered in many types of college courses. Readings and materials vary from section to section, but all sections require a minimum of seven papers, including a longer research paper.
Note: This course satisfies the second half of the College of Arts and Sciences writing requirement.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/012, Ms Rhodes, Sched No 727353, 3 Credits
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/1/012, Ms Fattori, Sched No 727458, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/1/010, Ms Morrissey, Sched No 727408, 3 Credits
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/019, Ms Davis, Sched No 727503, 3 Credits

Engl Z106
Oral Communication
The course focuses on improvement of interpersonal, small group, and public communication skills. Through readings, journals, class discussions, and other activities, we explore self-concept and perception, listening and responding, language and non-verbal behaviors, interviewing, problem-solving and decision-making, formal elements of speech-making, and the evaluating of one's own and others' public messages.
Midday/Afternoon
May 30-July 12, MW 11:45am-2:45pm, Harbor Campus W/1/012, Mr Armstrong, Sched No 727953, 3 Credits
Evening
May 30-July 12, TuTh, 6:00-9:00pm, Downtown Center 507, Ms Singer, Sched No 728002, 3 Credits
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/010, Mr Rocco, Sched No 728052, 3 Credits

Engl 200
Practical Criticism
Concentrated study of a few literary texts and of fundamental critical approaches to them. Although some attention is given to theoretical matters, the emphasis is primarily on the reading of fiction, poetry, and drama (works selected from various historical periods) and on providing the student with the specific techniques and vocabulary necessary for talking and writing effectively about literature.
Distribution Area: The Arts.
Midday/Afternoon
July 17-August 24, MW, 1:30-4:30pm, W/1/045, Ms Merrifield, Sched No 728252, 3 Credits

Engl C201
Five Major British Writers
Representative works by five of the most important writers from the fourteenth to the nineteenth century, studied as introductions to philosophical and humanistic studies, explored as reflecting and shaping the leading ideas, assumptions, and values of their ages. Works by Chaucer, Shakespeare, and other authors such as Milton, Swift, and Austen, with films and background lectures on the philosophical and historical contexts of the works and their authors. Instruction in analytical reading and writing are provided.
Distribution Area: Philosophical and Humanistic Studies.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/010, Mr Hurley, Sched No 726159, 3 Credits

Engl C204
The Nature of Literature: Fiction
An introduction to various critical approaches to the understanding and appreciation of fiction. Close reading of short stories and novels with special attention to the language and forms of fiction, as well as the writing of critical and interpretive papers. Comparison of fiction both to the visual arts (e.g., point of view, setting, imagery) and to music (e,g., prose rhythm, duration, thematic repetition, and variation). Attention to developing a sense of the milieu in which an artist works.
Distribution Area: The Arts.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/020, Mr Phillips. Sched No 726359. 3 Credits

Engl 206
Six American Authors
The achievements of American literature in articulating the American mind are illustrated by works from some well-known American writers — Thoreau, Dickinson, Faulkner, for example — as well as from those who deserve to be better known, such as Frederick Douglass, Kate Chopin, Zora Neale Hurston.
Distribution Area: The Arts.
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/045, Ms Duddy, Sched No 728452, 3 Credits

Engl 210
Introduction to Creative Writing
An introduction to the arts through the medium of writing as well as reading poetry, fiction, and drama. Student writing will be submitted weekly and discussed in class.
Prerequisite: Completion of freshman writing requirement.
Distribution Area: The Arts.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/1/010, Ms Mavro, Sched No 726559, 3 Credits

Engl Z215
Intermediate Composition
A composition course offering continued practice in expository and argumentative writing. Emphasis is on the development of rhetorical concepts (definition, exemplification, comparison, and others) for both analytic and compositional purposes: both for critical reading and for the organization and development of papers. Readings are short, complex passages representative of the kinds of discourse met in college classes and texts.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/010, Staff, Sched No 728652, 3 Credits
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus W/1/010, Ms Fattori, Sched No 728707, 3 Credits
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/010, Ms Rhodes, Sched No 728652, 3 Credits

Engl 300
Creative Writing Tutorial
Techniques and forms of fiction, poetry, and drama, conducted chiefly in tutorial conferences. Frequent discussion of student manuscripts.
Prerequisites: Completion of freshman writing requirement and permission of instructor.
Midday/Afternoon
May 30-July 12, TuTh 1:30-4:30pm, Harbor Campus W/1/029, Mr Richer, Sched No 728868, 3 Credits

Engl 330
Short Novel
Through reading of representative short novels, the course attempts to define the differences among the short story, the novel, and the novella or short novel. Generalizations about the similarities and differences between these genres and poetry and drama are considered The course includes the study of novels by such writers as Tolstoy, James, Conrad, Porter, Roth, Faulkner, Wright, and Camus.
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/1/045, Ms Murphy, Sched No 729101, 3 Credits

Engl 368
Modern American Fiction
A study of significant American fiction from the close of the 19th Century to World War II. Attention to aspects of literary modernism, aesthetic self-consciousness and experimentation, and the interaction between evolving fictional forms and changing social patterns. Further emphasis: the impact of World War I and the Depression upon behavior, sensibility and novelistic strategy; growing explicitness; the emergence of other voices from other rooms — ethnic, sexual, regional, racial; the variety and achievement of modern American fiction. Works by Henry James, Stephen Crane, Edith Wharton, F. Scott Fitzgerald, Ernest Hemingway, William Faulkner, and others.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/045, Mr Phillips, Sched No 729501, 3 Credits

Engl 375
Children's Literature
The study of literature for children, including criticism and the history of the development of literary materials written specifically for children. The works studied — by such authors as Lewis, Grahame, Wilder, and Milne — will be explored in the context of the historical and cultural settings in which they were produced, and the texts will be analyzed both as works of art and as instruments of cultural and didactic impact.
Midday/Afternoon
July 17-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/045, Ms Gane, Sched No 729701, 3 Credits

Engl 382
Shakespeare I
Shakespeare's comedies, history plays, and early tragedies largely from the first half of Shakespeare's career. The course emphasizes critical interpretations of individual plays, but it attempts as well to review Shakespeare's dramatic art in general, theatre history and conventions, theory of comedy and theory of tragedy, the language of verse drama, and the development of the history play.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/045, Mr Goodale, Sched No 729901, 3 Credits

Engl 481
British and American Detective Fiction
The course traces the development of detective fiction as a literary form and as a reflection of cultural attitudes toward politics, economics, race, and gender; its origins in the self-destructive mysticism of Poe, Wilkie Collins, and Arthur Conan Doyle; the aristocratic nostalgia of Dorothy Sayers, Agatha Christie, and Jane Langdon; the tough-guy fascistic posing of Dashiell Hammett and Raymond Chandler; and the feminism and depth psychology of P.D. James and Sara Paretsky. .
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/045, Ms Haire-Sargeant, Sched No 730108, 3 Credits

English as a Second Language

It is greatly to the advantage of the student to be placed in the proper English course. Both 101E and 102E are freshman courses, taught at a higher level than Advanced ESL. Students who wish to take 101E are required to take a writing placement test. For a test schedule, see the English section above. Students who wish to take 102E must have a transcript or final grade report showing that they have successfully completed one semester of Freshman English at UMass/Boston or elsewhere.

Engl 101E
Freshman English I
Practice in writing on various kinds of topics chosen to develop students' confidence and ability as writers. Readings and materials vary from section to section, but all sections require a minimum of seven papers. This special ESL section of freshman composition is designed to meet the specific needs of ESL students. In particular, the course emphasizes English syntax from a non-native point of view. For bilingual students only.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/037, Staff, Sched No 727103, 3 Credits
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/1/037, Staff, Sched No 727153, 3 Credits

Engl 102E
Freshman English II
Continued practice in writing on various topics with an emphasis on more difficult readings, using the library and research skills. Students again write about seven papers, including one research paper. Attention is given to English grammar from a non-native point of view. For bilingual students only.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/037, Staff, Sched No 727703, 3 Credits
July 17-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/037, Staff, Sched No 727753, 3 Credits

French

French 101
Elementary French I
Intensive practice in the four language skills, with an audio-lingual approach, for students who have no creditable training in French.
Distribution Area: Foreign Languages.
Morning
Lect: May 30-June 29, MTuWTh 10:00am-12:30pm, Harbor Campus M/2/624, Staff, Sched No 732706, 4 Credits
Lab: May 30-June 29, MTuWTh 12:45-1:30pm, Lab Fee: $10.00, Sched No 732756

French 102
Elementary French II
A continuation of French 101. Intensive practice in the four language skills, with an audio-lingual approach, for students who have completed French D101 or its equivalent.
Distribution Area: Foreign Languages.
Morning
Lect: July 5-August 3, MTuWTh 10:00am-12:30pm, Harbor Campus M/2/624, Staff, Sched No 732956, 4 Credits
Lab: July 5-August 3, MTuWTh 12:45-1:30pm, Lab Fee: $10.00, Sched No 733005

French 201
Intermediate French I
Intensive review and further study of grammar and audio-lingual skills with correlated intermediate-level readings in French literature or culture.
Prerequisite: French 102, 115 or equivalent.
Distribution Area: Foreign Languages.
Morning
Lect: May 30-June 29, MTuWTh 10:00am-12:30pm, Harbor Campus M/1/420, Staff, Sched No 733205, 4 Credits
Lab: May 30-June 29, MTuWTh 12:45-1:30pm, Lab Fee: $10.00, Sched No 733255

French 202
Intermediate French II
Continuation of French 201. Intermediate-level readings in French literature or culture.
Prerequisite: French 201 or equivalent.
Distribution Area: Foreign Languages.
Morning
Lect: July 5-August 3, MTuWTh 10:00am-12:30pm, Harbor Campus M/1/420, Staff, Sched No 733455, 4 Credits
Lab: July 5-August 3, MTuWTh 12:45-1:30pm, Lab Fee: $10.00, Sched No 733500

French 301
Traduction et Stylistique
Intensive study of grammar, stylistics and composition. Problems of idiomatic translation based on the study of contemporary literary texts. Emphasis is on oral communication.
Prerequisite: French 202 or equivalent, or permission of instructor.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/1/421, Staff, Sched No 733700, 3 Credits

Geography and Earth Science

GES 110
Physical Geology
A survey of the processes which affect the earth, the materials of which the earth is formed, and the earth's internal structure.
Distribution Area: Natural Sciences.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus S/3/034, Mr Genes, Sched No 735203, 3 Credits

GES 225
Weather and Climate
Atmospheric processes forming the basis for weather patterns and climatic development on a global scale. Major topics include earth-sun relationships, heating and cooling of the atmosphere, atmospheric circulation, pressure patterns, air mass formation and frontal systems, vertical zonation of climate, and the Koppen System for evaluating and classifying climatic phenomena.
Prerequisite: Sophomore standing.
Distribution Area: Natural Sciences.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/057, Mr Mensoian, Sched No 735603, 3 Credits

GES 249
World Regional Geography
An analysis of physical and human geographic factors, including landforms, climate, soils, resources, population, and other factors where appropriate, in selected world regions. Major world regions are discussed with respect to the interactions between human beings and their environment. Each region is studied in order to develop ideas about major physical and human geographic principles or relationships.
Distribution Area: Social and Behavioral Sciences.
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus S/2/065, Mr Mensoian, Sched No 736007, 3 Credits

Special Program Fox Point Marine Institute

The Department of Geography and Earth Science has developed a special summer program combining classroom, laboratory, and field work to investigate shallow water oceanography in and around Boston Harbor. Students also participate in discussions of our society's impact on physical resources and recreational environments. The focus of this summer's program is Calf Island, the first of the outer Boston Harbor Islands to be studied as part of a five-year investigation of these islands being carried out in cooperation with the Massachusetts Department of Environmental Management. Data collected during the field component of this program will be used in that project.

Students may enroll in as many of the following Institute-related courses as their own schedules permit. GES 105, 226, and 227 meet specific distribution requirements for UMass/Boston students in the College of Arts and Sciences, though they are also open to other students.

Space in these courses is limited, so interested students should register early.

GES 105
Earth Science I
An introduction to geoscience, integrating such fields as geology, meteorology, oceanography, and physical geography. Emphasis is placed on understanding geophysical processes of importance to human beings and their environment. Topics include the origin of the earth, energy and material resources, earthquakes, volcanism, tides, glaciation, atmospheric behavior, climate, and the environmental impact of technology.
Corequisite: GES 107.
Distribution Area: Natural Sciences.
Note: The fee for this special three-credit course is $250.
Midday/Afternoon
May 30-June 29, MTuWThF 11:45am-1:15pm, Harbor Campus S/2/065, Mr Looney, Sched No 734809, 3 Credits

GES 107
Earth Science Laboratory I
A laboratory course designed to accompany GES 105. Basic experiments include examination of minerals, rocks, and fluid earth materials; analysis of sedimentary processes and weathering; study of diverse geological processes using topographical and geological maps, aerial maps and photographs; field trips.
Corequisite: GES 105.
Midday/Afternoon
May 30-June 29, W 1:30-4:30pm, Mr Looney, Sched No 735003, 1 Credit

GES 226
Physical Oceanography
The development of oceanography as a science. An introduction to the early contributors to oceanographic research, and an introduction to methods and techniques in physical oceanography. Discussion of the geological setting and plate tectonics as this theory affects other areas of oceanography. The study of coastal processes and their effect on the coast, especially as a consequence of the Blizzard of 1978. The course concludes with a consideration of the origin of sea water, its movements (currents, tides, waves, etc.) and its composition.
Prerequisite: Sophomore standing or permission of instructor.
Distribution Area: Natural Sciences.
Note: The fee for this special three-credit course is $250.
Morning
July 5-August 3, MTuWThF 10:00-11:30am, Harbor Campus S/2/066, Mr Looney, Sched No 735403, 3 Credits

GES 227
Marine Resources
Major emphasis on the commercial invertebrates and vertebrates (mainly fish) with respect to their distribution, methods of catching, and commercial values. Minerals, energy, and transportation are also examined as marine resources. In summer, 1989, topics will include marine transportation, maritime law, off-shore oil, minerals derived from the sea, and the fishing industry. On-water experiments involving fin fish and shell fish will be undertaken.
Note: The fee for this special three-credit course is $250.
Distribution Area: Natural Sciences.
Morning
May 30-June 29, MTuWThF 10:00-11:30am, Harbor Campus S/2/066, Mr Looney, Sched No 735803, 3 Credits

GES 480
Estuarine Geography on Calf Island
A field laboratory and lecture-based course that reviews the abiotic and biotic features of an estuary. Participants spend three days in the field on Calf Island (one of the Boston Harbor islands) to study, map, photograph, and write about environmental features. All students participate in both the lecture and field-laboratory components of the course. Food and lodging (tents) are provided at the field camp on Calf Island.
Note: The fee for this special three-credit course is $250.
Midday/Afternoon
July 5-August 4, MTuWThF 11:45am-1:15pm, Harbor Campus S/2/065, Mr Looney, Sched No 736207, 3 Credits

German

Ger 101
Elementary German I
For students with no creditable training in German. Work in the four language skills.
Distribution Area: Foreign Languages.
Morning
Lect: May 30-June 29, MTuWTh 8:15-10:45am, Harbor Campus M/1/421, Mr Cedargren, Sched No 734104, 4 Credits
Lab: May 30-June 29, MTuW 11:00-11:45am, Lab Fee: $10.00, Sched No 734154

Ger 102
Elementary German II
Continuation of Ger 101.
Distribution Area: Foreign Languages.
Morning
Lect: July 5-August 3, MTuWTh 8:15-10:45am, Harbor Campus M/1/421, Mr Cedargren, Sched No 734354, 4 Credits
Lab: July 5-August 3, MTuW 11:00-11:45am, Lab Fee: $10.00, Sched No 734409

For a real eye-opener, try AmSt 310, Television in American Life. See page 4.

See "Location Key" on page 26 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

History

Hist C101
The Individual In History
This course examines the part played by outstanding personalities in history. Was their success due to their ability to shape events? Or due merely to favorable historical circumstances? Focus is on famous individuals associated with major developments in modern history, such as Luther, Elizabeth, Peter the Great, Napoleon, Lenin.
Distribution Area: Historical and Cultural Studies.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus M/1/417, Mr Hull, Sched No 736607, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus M/1/212, Mr Hull, Sched No 736657, 3 Credits

Hist 111
Foundations of Western Civilization
After a brief survey of the ancient world, the course traces the political, economic, and cultural development of Western society from the early Middle Ages to 1715. Emphasis is given to the critical analysis of primary sources.
Distribution Area: Historical and Cultural Studies.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus M/1/417, Mr Callanan, Sched No 737051, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/1/417, Mr Pokorny, Sched No 737106, 3 Credits

Hist 112
Modern Western Civilization
This course traces the major political, economic, and cultural changes which have shaped Western society from the Enlightenment to the present. Special attention is given to the critical analysis of primary source materials.
Distribution Area: Historical and Cultural Studies.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus M/1/418, Mr Pokorny, Sched No 737306, 3 Credits
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus M/1/212, Mr Weston, Sched No 737356, 3 Credits

Hist 114
Modern World History II
History of modern Western industrial societies and the non-Western world, from 1800 to the present.
Distribution Area: Historical and Cultural Studies.
Midday/Afternoon
July 17-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus M/1/417, Mr Pokorny, Sched No 736857, 3 Credits

Hist 265
American History I
Introduces students at the intermediate level to the study of American history before 1877. Subject matter encompasses virtually all aspects of American society, and the interrelationship among social structure, economic development, everyday life, culture, and formal politics is explored throughout the course. Special attention is given to the nature of historical inquiry.
Prerequisite: Sophomore standing or permission of instructor.
Distribution Area: Historical and Cultural Studies.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/1/418, Mr Callanan, Sched No 737556, 3 Credits
Midday/Afternoon
July 17-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus M/1/418, Mr Dunbar, Sched No 737601, 3 Credits

Hist 266
American History II
A survey of American history from 1877 covering the nature of American social structure, economic development, everyday life, culture, and formal politics. Special attention is given to the nature of historical inquiry.
Prerequisite: Sophomore standing or permission of instructor.
Distribution Area: Historical and Cultural Studies.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus M/1/418, Mr Bondi, Sched No 737801, 3 Credits
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus M/1/417, Mr Bondi, Sched No 737851, 3 Credits

Hist 356
Latin America Since Independence
The histories of Mexico, Argentina, Brazil and Cuba since 1800. Emphasis on British and American economic expansion into these countries during the nineteeth and twentieth centuries, and the resulting political and social consequences. Note: This course is a requirement for the Latin American Studies Program.
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus M/1/417, Mr Horowitz, Sched No 738055, 3 Credits

Hist 380
U.S. in the Twentieth Century
American politics and culture from the New Deal to the present.
Prerequisite: Hist 266 or permission of instructor.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus M/1/417, Mr Dunbar, Sched No 738255, 3 Credits.

Hist 478a
The Quest for Empire in the Middle East and Africa
The course examines Europe's imperial adventure from the race for the Nile in the 1890s to the Suez Crisis of 1956. Highlights of the course include Lawrence of Arabia and the Arab Revolt against the Turks, Anglo-French rivalry in the Middle East, and the origins of the Arab-Israeli conflict. Readings include excerpts from original documents as well as selections from personal memoirs and literary works.
Prerequisite: Junior standing or permission of instructor.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/1/428, Mr Roshwald, Sched No 738455, 3 Credits.

Hist 478b
Art, Literature, and Politics in America 1890-1990
Analysis of the relationship between art, literature, philosophy, and politics in America from 1890 to the present. Topics include Pragmatism and social theory; Realism, the Ash-Can School and Progressivism; the impact of Marx and Freud; cultural modernism and normalcy; the intellectual avant-garde between the wars; Idealism and Abstract Impressionism; the defense of the West and the Cold War; the New Left and counter-culture; Neo-conservatism, Neo-pragmatism, and Post-modernism.
Prerequisite: Junior standing or permission of instructor.
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus M/1/417, Mr Bondi, Sched No 738655, 3 Credits

Italian

Ital 101
Elementary Italian I
For students who have no creditable training in Italian; intensive practice in the four language skills, with an audio-lingual approach.
Distribution Area: Foreign Languages.
Morning
Lect: May 30-June 29, MTuWTh 10:00am-12:30pm, Harbor Campus W/2/123, Ms Esposito-Frank, Sched No 740656, 4 Credits
Lab: May 30-June 29, By Arrgt., Lab Fee: $10.00, Sched No 740701

Ital 102
Elementary Italian II
Continuation of Ital 101.
Prerequisite: Ital 101 or equivalent.
Distribution Area: Foreign Languages.
Morning
Lect: July 5-August 3, MTuWTh 10:00am-12:30pm, Harbor Campus W/2/123, Ms Esposito-Frank, Sched No 740901, 4 Credits
Lab: July 5-August 3, By Arrgt. Lab Fee: $10.00, Sched No 740951

Japanese

Jse 101
Elementary Japanese I
For students with no previous language training in Japanese. Introduction to pronunciation, grammar, conversation, and the elements of the writing system (Hiragana and Kanji).
Distribution Area: Foreign Languages.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/2/420, Mr Kokubo, Sched No 741355, 3 Credits.
Lab: May 30-July 12, By Arrangement, Sched No 741400

Jse 102
Elementary Japanese II
Continuation of Jse 101. Grammar and conversation using the basic patterns.
Prerequisite: Jse 101.
Distribution Area: Foreign Languages.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus M/2/420, Mr Kokubo, Sched No 741600, 3 Credits.

Labor Studies

LS 160
Introduction to Labor History and the American Labor Movement
Examines the work experience (wages, hours, conditions) in different eras from colonial times to the present; such forms of collective organization as unions and political parties; the nature of social class and class consciousness; the formation of and changes in working-class ideology; sources of cleavage such as ethnicity, race, skill, and sex; and the role of working people in the making of American history.
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/012, Mr Salerno, Sched No 743808, 3 Credits

Latin

Lat 101
Fundamentals of Latin I
Designed to complete a standard basic textbook with Latin 102.
Distribution Area: Foreign Languages.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/2/415, Staff, Sched No 744802, 3 Credits.

Lat 102
Fundamentals of Latin II
Continuation of Latin 101.
Distribution Area: Foreign Languages.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus M/2/415, Staff, Sched No 745006, 3 Credits.

Law and Justice

LawJus 103a
Crimes Without Victims Prostitution, Homosexuality, & Pornography
This course examines these so-called "victimless crimes" from a philosophical and legal perspective. Its concern is with the question of whether we ought to legislate against certain types of socially disturbing activities and, if so, why. The course focuses on three major categories: prostitution, homosexuality, and pornography.
Midday/Afternoon
May 30-June 27, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/044, Mr Lott, Sched No 742004, 2 Credits.

LawJus 103b
Politics of Rape
Examination of the political dimensions of rape. Class discussions and readings explore the question of why different kinds of people suffer in different ways at the hands of the law in the United States. Readings include excerpts from the writings of Harriet Jacobs, Ida B. Wells, Alice Walker, Susan Brownmiller, Angela Davis, J.P. Sartre, Theodore Dreiser, Jean Toomer, and Harper Lee.
Midday/Afternoon
June 28-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/044 Mr Lott, Sched No 742204, 1 Credit.

LawJus 103c
Family Violence
This course focuses on the awareness and the understanding of family violence (for example, child abuse, spouse abuse) as a social problem. It seeks to help participants grasp the psychological complexities of this problem, understand the laws that exist to deal with it, and address ways of dealing with family violence in our society.
Evening
May 30-June 27, TuTh 6:00-9:00pm, Harbor Campus W/1/044 Ms Herr, Sched No 742404, 2 Credits

LawJus 103d
Incest
This course examines incest as a problem for families and for society as a whole. It explores the psychological consequences for both victims and perpetrators, the effectiveness of the laws that deal with incest, and other options for preventing sexual abuse.
Evening
June 28-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/044, Ms Herr, Sched No 742604, 1 Credit

LawJus 103e
Law and Morality
This course examines how legal systems try to put into practice the moral codes held by their particular societies. One central question is that of how successfully morality translates into law.
Midday/Afternoon
July 17-August 10, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/044, Mr Krustapentus, Sched No 742804, 2 Credits.

LawJus 103f
The Supreme Court
The course looks at some cases in the history of the Supreme Court examining their moral, legal and philosophical implications.
Midday/Afternoon
August 14-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/044, Mr Krustapentus, Sched No 743008, 1 Credit.

LawJus 103g
AIDS, Public Policy and the Law
This course surveys the public policy and legal dilemmas posed by HIV, the virus that causes AIDS and ARC. Issues include confidentiality, discrimination, the protection of health care workers, and the safeguarding of public health.
Evening
August 14-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/044, Ms Jacoby, Sched No 743208, 2 Credits

LawJus 103h
Mental Health Law
Through analysis of some landmark legal decisions in the area of mental health over the past two decades, this course traces the development of the patients' civil rights movement and evaluates its impact on mental health professionals.
Evening
July 17-August 10, TuTh 6:00-9:00pm, Harbor Campus W/1/044, Ms Jacoby, Sched No 743408, 1 Credit

Linguistics

Ling Z151
Elementary American Sign Language I
This course provides an introduction to American Sign Language with emphasis on receptive skills, vocabulary, and grammar. It introduces the linguistics of ASL, and seeks to help participants develop, through readings, videotapes, and appearances by guest speakers, an awareness of issues important to the Deaf community. The course includes time in class and in videotape lab.
Morning
May 30-July 12, MW 6:00-9:00pm, Harbor Campus, Staff, Sched No 744202, 3 Credits.

Ling Z152
Elementary American Sign Language II
A continuation of Ling Z151 with emphasis on receptive and expressive skills.
Prerequisite: Ling Z151 or permission of instructor.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/2/056, Staff, Sched No 744402, 3 Credits.

Management

MGT 130
Introduction to Business
Familiarizes students with the nature of business and its relationship to other institutions in society. The course examines business ownership, organization, management, marketing, human resources management, production, and finance. In addition, the course explores issues of the relationship between capitalism and business, the law and business, and government and business.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/064, Staff, Sched No 749252, 3 Credits
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus W/1/064, Staff, Sched No 749307, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Downtown Center 509, Mr Jones, Sched No 749507, 3 Credits
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/064, Mr Chin, Sched No 749557, 3 Credits

MGT 220
Managerial Ethics and Social Issues
Examines the kinds of ethical principles (e.g., rights and obligations, justice, equality, the public interest) generally offered in justification of ethical judgments. The course seeks to help students learn how to apply these principles to social and economic issues that managers face in such areas as public health, safety, fiduciary and product responsibilities, environmental pollution, and discrimination.
Morning
May 30-July 12, MTuWTh 10:00am-11:30pm, Harbor Campus W/1/064, Mr Cooper Weile, Sched No 749757, 3 Credits
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/064, Ms Prevett, Sched No 749957, 3 Credits

Note: Any student wishing to take MGT 301, 302, 330, 401 or 490, 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; 3) must have completed all course prerequisites with a C minus or better; and 4) must be in good academic standing.

Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services, no later than the last day of late registration, in order for the student to enroll in MGT 301, 302, 330, 401, or 490. Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

MGT 301
Theory and Practice of Management
(See note above.)
Introduces the process of planning, organizing, directing, and controlling activities as they relate to the effective use and development of people in formal organizations. Students learn analytical tools for recognizing, diagnosing, and acting on managerial problems related to organizations, their objectives, and the development of human resources. The course emphasizes organizational analysis and design, and the analysis of effects of organizational structure on human performance.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/041, Mr Lindamood, Sched No 750154, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/046, Mr McCarthy, Sched No 750354, 3 Credits

MGT 302
Organizational Behavior
(See note above.)
Examines theories and research about human behavior in organizations. Through experiential learning, students analyze individual behavior, interpersonal relations, and group dynamics, all from a managerial perspective. The course also considers the options open to management in structuring human performance, as well as the value implications of personnel decisions.
Prerequisite: MGT 301.
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/046, Staff, Sched No 750554, 3 Credits.

MGT 330
Business Environments and Public Policy
(See note above.)
Examines the interaction of business and government in the contemporary public process in the United States. The course helps students become familiar with the private sector's effect on the public sector as well as the public's effect on the private. The course examines how government promotes, regulates, and competes with private enterprise.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/045, Mr Wasserman, Sched No 750637, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus, W/1/009, Mr Wasserman, Sched No 750760, 3 Credits.
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/046, Mr Jones, Sched No 750754, 3 Credits

MGT 401
Personnel Management Systems
(See note above.)
Explores the personnel management process in both the public and private sectors. The course examines the role of the personnel manager and the nature of the various forces shaping that role. Topics include the traditional areas of personnel management, such as recruitment, selection, and compensation; and the special problems associated with public sector.
Midday/Afternoon
May 30-July 12, TuTh 1:30-4:30pm, Harbor Campus, W/1/045, Mr Quaglieri, Sched No 750954, 3 Credits

MGT 490
Business Policy
(See note above.)
Focuses on the organization as a whole, from a perspective that takes into account both the role of top management and the future of the organization. The course is designed to be the capstone of the student's academic career. It develops an approach for identifying the ultimate aim of the organization, exploring its external environment for opportunities and risks, and relating these to internal strengths and weaknesses. The course emphasizes case analysis.
Prerequisite: Senior standing and AF 210, 211, 301; MGT 301, 302, 330; MKT 301; MS 301.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/046, Mr Lindamood, Sched No 751358, 3 Credits
Midday/Afternoon
July 17-August 24, TuTh 11:45am-2:45pm, Harbor Campus W/2/127, Mr Sheppard, Sched No 751603, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/1/046, Mr Lindamood, Sched No 751558, 3 Credits.

Management Sciences

MS 110
Introduction to Computers in Management
Introduces computers and information systems, and their use in business decision making. Topics include the concepts and components of management information systems, productivity software tools, flow-charting, BASIC programming, and simple applications.
Note: The fee for this three-credit course is $220.00.
Midday/Afternoon
May 30-July 12, MW 11:45am-3:00pm, Harbor Campus W/1/064, Lab Fee: $10.00, Mr Gutierrez, Sched No 753706, 3 Credits
July 17-August 24, TuTh 1:30-4:45pm, Harbor Campus W/1/063, Lab Fee: $10.00, Mr Schiavone, Lab Fee: $10.00, Sched No 753756, 3 Credits
Evening
July 17-August 24, TuTh 6:00-9:15pm, Harbor Campus W/1/057, Lab Fee: $10.00, Staff, Sched No 753956, 3 Credits

MS 210
Managerial Statistics I
Provides the student with a basic knowledge of ways to reduce masses of data into a meaningful form for decision making. The course examines collection and presentation of data, measures of central tendency and dispersion, frequency distributions, probability and probability distributions, and an introduction to statistical inference. Students make use of computers and appropriate software to apply what they are learning.
Note: The fee for this three-credit course is $220.00.
Prerequisite: Math 134 or Math 135.
Midday/Afternoon
May 30-July 12, TuTh 11:45am-3:00pm, Harbor Campus W/1/064, Lab Fee: $10.00, Mr Berman, Sched No 754150, 3 Credits.
Evening
July 17-August 24, MW 6:00-9:15pm, Harbor Campus W/2/198, Mr Gianoukos, Lab Fee: $10.00, Sched No 754350, 3 Credits

MS 211
Managerial Statistics II
Provides the student with additional (beyond MS 210) knowledge of statistical analysis approaches used in decision making. Topics include decision theory, Bayesian statistical approaches, statistical inference, non-parametric statistics, regression, and correlation analysis. Students make use of computers and appropriate software to apply what they are learning.
Note: The fee for this three-credit course is $220.00.
Prerequisite: MS 210.
Midday/Afternoon
July 17-August 24, TuTh 11:45am-3:00pm, Harbor Campus W/1/064, Ms Ker, Sched No 754550, Lab Fee: $10.00, 3 Credits
Evening
May 30-July 12, MW 6:00-9:15pm, Harbor Campus W/1/064, Mr Gianoukos, Sched No 754750, Lab Fee: $10.00, 3 Credits
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/047, Ms Ker, Sched No 754805, Lab Fee: $10.00, 3 Credits

Math 134
Managerial Algebra and Calculus
This course is designed to provide students with mathematical literacy through mastery of basic algebra and basic calculus. Topics include functions, graphs, absolute value, linear equations, inequalities, systems of linear equations and inequalities, polynomials, exponential and logarithmic functions, limits, continuity, derivatives, summation of series, and integration. Applications are made to managerial situations throughout the course.
Note: This course is for College of Management students only. Students may not receive graduation credit for more than one of the following: Math 134,135,140.
Prerequisites: Placement into Math 135 on Math Diagnostic Test, or completion of Math 124, or permission of instructor.
Evening
May 30-July 12, MTuWTh 7:45-9:15pm, Harbor Campus W/2/126, Staff, Sched No 746705, 3 Credits.

Note: Any student wishing to take MS 301 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; 3) must have completed all course prerequisites with a C- (C minus) or better; and 4) must be in good academic standing.

Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services, no later than the last day of late registration, in order for the student to enroll in MS 301.

Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

MS 301
Operations Management
(See note above.)
Introduces the student to the design and control problems of every system that transforms inputs into outputs, with major emphasis given to the problems associated with the production function of a manufacturing organization. The course also covers operations research approaches used to solve the associated problems.
Prerequisite: MS 210.
Midday/Afternoon
May 30-July 12 TuTh 1:30pm-4:45pm, Harbor Campus W/1/063, Mr Papageorgiou, Sched No 755009, 3 Credits
July 17-August 24, MW 11:45-3:00pm, Harbor Campus W/1/064, Mr Gianoukos, Sched No 755059, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:15pm, Harbor Campus W/1/064, Mr Papageorgiou, Sched No 755259, 3 Credits

Marketing

Note: Any student wishing to take MKT 301 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; 3) must have completed all course prerequisites with a C- (C minus) or better; 4) must be in good academic standing.

Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services, no later than the last day of late registration, in order for the student to enroll in MKT 301.

Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

Please be sure that you enter the correct schedule number and starting date for each course when you complete your registration form. Improperly completed forms cannot be accepted, and therefore will be returned unprocessed.

MKT 301
Principles of Marketing
(See note above).
Develops students' understanding of marketing principles underlying the selection and assessment of markets and the development and delivery of products and services.
Prerequisites: MS 110, Econ 101 and 102.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/047, Staff, Sched No 752952, 3 Credits.

Mathematics

Please note: Computer science course descriptions appear in this bulletin under "Computer Science". All computer science (CS) courses have been recently renumbered by the Department of Mathematics and Computer Science. Their former codes and numbers are indicated in parentheses. Math D137P is now CS 110P; Math D138 is now CS 210. For further information contact the Department.

Please note: students in any mathematics course may be required to attend one additional 50-minute discussion section per week if the enrollment in that course exceeds normal capacity.

Math Diagnosis
It is greatly to the advantage of the student to be placed in the proper course. Students are advised to consult course descriptions for prerequisites and equivalents before registering for math courses. To ensure placement in the right course, each student will be required to take a Math Diagnostic Test before being admitted to a course that requires this test as indicated in its description. This step will prevent loss of time in switching courses or obtaining refunds after classes have begun.
The test will be given during the following periods for students enrolling in summer math courses:
Wednesday, May 10, 11:30am-1:30pm, W/4/Student Affairs Conference Room
Wednesday, May 10, 5:00pm-8:00pm, W/4/Student Affairs Conference Room
Friday, May 12,11:30-am-1:30pm, W/1/057
Tuesday, May 30, 3:00pm-6:00pm, W/1/004
Thursday, July 6, 11:30am-1:30pm, W/1/004
Thursday, July 6, 5:00pm-8:00pm, W/1/009
Monday, July 17, 11:30am-1:30pm, W/1/004

Math 110
Basic Algebra
For students with weak math background who want to develop skills for further math or science courses. Covers basic high school math. Topics include multiplying and factoring polynomials, linear equations and straight lines, fractional exponents and radicals, ratios of polynomials, quadratics, word problems. Generally limited to students with less than 3 years of high school math preparation.
Note: No student receives graduation credit for Math 110 if it is taken after successful completion of Math 124 or 130 or a higher math course.
Prerequisite: Math Diagnostic Test only.
Distribution Area: Mathematics and Computer Languages.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/055, Staff, Sched No 745406, 3 Credits
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/055, Staff, Sched No 745456, 3 Credits
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/1/055, Staff, Sched No 745551, 3 Credits
Evening
May 30-July 12, MTuWTh 7:45-9:15pm, Harbor Campus W/2/125, Staff, Sched No 745501, 3 Credits
July 17-August 24, MTuWTh 6:00-7:30pm, Harbor Campus W/2/125, Staff, Sched No 745606, 3 Credits

Math 125
Introductory Statistics
For non-science and non-mathematics majors only. Topics include: introductory statistics, covering descriptive statistics; introductory probability sufficient to enable development of inferential statistics; and inferential statistics.
Note: No student will receive graduation credit for Math 125 if it is taken after successful completion of Math 345 or 645.
Not open to mathematics majors.
Prerequisite: Math Diagnostic Test or Math 110.
Distribution Area: Mathematics and Computer Languages.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus, W/1/056, Staff, Sched No 745806, 3 Credits
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus, W/1/055, Staff, Sched No 745856, 3 Credits

Math 129
Pre-Calculus for Management and Social Science Students
This course teaches the algebraic and conceptual skills students need to master before they are ready for Math 134 or Math 135. Students intending to take Calculus I and II (Math 140 & 141) should take Math 130 instead of Math 129. Students who have successfully completed Math 129 may subsequently take Math 130 only with explicit permission of the Math Department, and then only for two credits. Students who have successfully completed Math 129 may not subsequently take Math 124 for credit.
Distribution Area: Mathematics and Computer Languages.
Prerequisite: Math Diagnostic Test.
Evening
May 30-July 12, MTuWTh 6:00-7:30pm, Harbor Campus W/2/125, Staff, Sched No 746050, 3 Credits.

Math 130
Pre-Calculus
Preparation for first year calculus. Covers symmetry, graphs, functions, lines, parabolas and max-min problems, exponential and logarithm functions, exponential growth, semilog graphing, and the trigonometric functions and their inverses. Qualified students should enter Math 140 without taking this course.
Note: No student receives graduation credits for Math 130 if it is taken after successful completion of Math 140 or a higher math course. Students who have successfully completed Math 130 may not subsequently take Math 124 for credit. Students may take Math 130 after 124 only with explicit permission of the Math Department.
Prerequisite: Math Diagnostic Test only. Successful completion of Math 110 is not enough.
Distribution Area: Mathematics and Computer Languages.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/057, Staff, Sched No 746250, 3 Credits.
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus W/1/057, Staff, Sched No 746400, 3 Credits.
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/057, Staff, Sched No 746305, 3 Credits.
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/1/057, Staff, Sched No 746450, 3 Credits.
Evening
May 30-July 12, MTuWTh 6:00-7:30pm, Harbor Campus M/2/616, Staff, Sched No 746355, 3 Credits.
July 17-August 24, MTuWTh 7:45-9:15pm, Harbor Campus W/2/125, Staff, Sched No 746505, 3 Credits.

Math 134
Managerial Algebra & Calculus
This course is designed to provide students with mathematical literacy through mastery of basic algebra and basic calculus. Topics include functions, graphs, absolute value, linear equations, inequalities, systems of linear equations and inequalities, polynomials, exponential and logarithmic functions, limits, continuity, derivatives, summation of series, and integration. Applications are made to managerial situations throughout the course.
Note: This course is for CM students only. Students may not receive graduation credit for more than one of these courses: Math 134, 135, or 140.
Prerequisites: Placement into Math 135 or Math Diagnostic Test or completion of Math 124, or permission of instructor.
Evening
May 30-July 12, MTuWTh 7:45-9:15pm, Harbor Campus W/2/126, Staff, Sched No 746705, 3 Credits.

Math 140
Calculus I
The first in the sequence of calculus courses for science and math majors. Starts with the basic concepts of functions and limits. Topics covered include derivatives and their applications, definite and indefinite integrals with applications to geometric and physical problems, and discussion of algebraic and transcendental functions.
Note: A student who has received credit for Math 135 may not take Math 140 for credit without the explicit permission of the department and then only for two credits.
Prerequisite: Math Diagnostic Test or Math 130.
Distribution Area: Mathematics and Computer Languages.
Morning
May 30-July 12, MTuWTh 8:00-9:45am, Harbor Campus W/2/126, Staff, Sched No 747109, 4 Credits
May 30-July 12, MTuWTh 10:00-11:45am, Harbor Campus W/2/125 Staff, Sched No 747159, 4 Credits
July 17-August 24, MTuWTh 8:00-9:45am, Harbor Campus W/2/126, Staff, Sched No 747254, 4 Credits
July 17-August 24, MTuWTh 10:00-11:45am, Harbor Campus W/2/125, Staff, Sched No 747309, 4 Credits
Evening
May 30-July 12, MTuWTh 5:45-7:30pm, Harbor Campus W/2/126, Staff, Sched No 747204, 4 Credits
July 17-August 24, MTuWTh 5:45-7:30pm, Harbor Campus W/2/126, Staff, Sched No 747359, 4 Credits

Math 141
Calculus II
Continuation of Math 140. Topics include transcendental functions, techniques of integration, applications of the integral, improper integrals, L'Hospital's rule, sequences, and series.
Prerequisite: Math 140 or equivalent.
Distribution Area: Mathematics and Computer Languages.
Morning
May 30-July 12, MTuWTh 8:00-9:45am, Harbor Campus W/1/060, Staff, Sched No 747559, 4 Credits
May 30-July 12, MTuWTh 10:00-11:45am, Harbor Campus W/1/060, Staff, Sched No 747604, 4 Credits
July 17-August 24, MTuWTh 8:00-9:45am, Harbor Campus W/1/060, Staff, Sched No 747709, 4 Credits
July 17-August 24, MTuWTh 10:00-11:45am, Harbor Campus W/1/060, Staff, Sched No 747759, 4 Credits
Evening
May 30-July 12, MTuWTh 5:45-7:30pm, Harbor Campus W/1/055, Staff, Sched No 747654, 4 Credits
July 17-August 24, MTuWTh 7:45-9:30pm, Harbor Campus W/2/124, Staff, Sched No 747804, 4 Credits

Math 240
Calculus III
Calculus of functions of several variables. Topics include partial derivatives, transformations, derivative as a matrix, chain rule, directional derivatives, gradients, second derivatives; and multiple integrals, substitution rule, and Jacobians.
Prerequisite: Math 141 is required, and either Math 260 or Phys 114 is strongly recommended.
Distribution Area: Mathematics and Computer Languages.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/044, Staff, Sched No 748208, 3 Credits

Math 260
Linear Algebra I
Elementary theory of abstract vector spaces. Topics include linear independence, bases, dimension, linear maps and matrices, determinants, orthogonality, eigenvalues and eigenvectors.
Prerequisite: Math 141.
Distribution Area: Mathematics and Computer Languages.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/056, Staff, Sched No 748408, 3 Credits
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/1/056, Staff, Sched No 748458, 3 Credits

Math 310
Applied Ordinary Differential Equations
Comprehensive study of ordinary, differential equations. Series solutions to differential equations, Bessel functions, characteristic functions, and Fourier series.
Prerequisites: Math 141 and either Math 260 or Phys 114.
Day
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/044, Staff, Sched No 748658, 3 Credits

Math 345
Probability
The mathematical study of the laws of random phenomena, including discrete and continuous random variables, expectation and variance, and common probability distributions such as the binomial, Poisson, and normal. Basic principles of combinatorics are introduced to solve problems in discrete probability spaces.
Evening
Prerequisite: Math 260 or permission of instructor.
May 30-July 12, MTuWTh 6:00-7:30pm, Harbor Campus W/1/012, Staff, Sched No 748858, 3 Credits.

Music

Music C110
Listening Experience
A study of the creative processes that shape the musical art work, emphasizing a broad range of intensive, analytical listening experiences.
Distribution Area: The Arts.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/1/005, Mr Huggler, Sched No 758106, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/005, Mr Zebrowski, Sched No 758051, 3 Credits

Music C111
Introduction to Music
Basic music materials, principles of design, and the cultural significance of representative works in historical sequence. Designed primarily for non-music majors.
Distribution Area: The Arts.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/005, Mr Patterson, Sched No 758306, 3 Credits
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/005, Mr Zebrowski, Sched No 758356, 3 Credits

Music 125
Theory I
Fundamentals of music theory. An introduction to the melodic, rhythmic, contrapuntal, harmonic, and formal organization of music. Ear training and sight singing.
Distribution Area: The Arts.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/005, Mr Patterson, Sched No 758756, 3 Credits.

Music 185
Applied Music
Twelve weekly sessions of private instruction in technique and literature at the beginning, intermediate or advanced levels for piano, guitar, voice, flute, and other orchestral instruments. This course carries one academic credit but may also be taken for no credit at the same course fee. Lessons begin the week of June 5. Hours by arrangement. Walk-in registration only. To register, and for further information, visit the Summer Session Registration Center at the Harbor Campus (Healey Library, 2nd Floor Lobby).
Course fee: 12 weekly one-hour lessons, $300, 1 credit, OR 12 weekly half-hour lessons, $150, 1 Credit.

Music 251
History and Development of Jazz
The development of jazz from its origin to the present.
Distribution Area: The Arts.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/006, Mr Huggler, Sched No 758956, 3 Credits.

Music C252
African and African-American Music
An examination of African-American music (black music) from its African origins to contemporary black musical expression, including work songs, spirituals, minstrelsy, blues, rhythmn and blues, and gospel.
Distribution Area: The Arts.
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus W/1/005, Mr Walters, Sched No 758556, 3 Credits.

Nursing

Nurs 201
Pathophysiology
The course deals with alterations in the normal physiology of body structures. Discussion of normal state is followed by the description of physiological changes resulting in the symptoms of disease. Topics include the various body systems, such as cardiovascular, renal, respiratory, and endocrine.
Corequisite: Biol 208.
Prerequisites: Biol 111, 207.
Late Afternoon/Evening
May 30-June 29, MTuWTh 4:30-6:30pm, Harbor Campus W/1/041, Staff, Sched No 759350, 3 Credits

Nurs 305
Health Assessment
The focus of this course is on assessment, the first phase of the nursing process, seen within an organizing framework of systems analysis. The nursing diagnostic statement is emphasized as the basis for the planning of nursing management. Basic processes of health assessment are introduced, as well as interviewing and history taking. Physical examination techniques (inspection, palpation, percussion, auscultation, measurement and instrumentation) are described as extensions of the observation process. The course includes a practicum component.

Note: This course is open only to RNs and to generic nursing students who have completed Nurs 200. UMass/Boston students expecting to take Nurs 401 in the fall semester should pre-register for Nurs 305 as early as possible with the College of Nursing.
Morning
May 30-July 12, MW 8:15-11:15am, Harbor Campus W/2/198, Ms Dumas, Sched No 759354, 4 Credits.
Lab: May 30-July 12, MW 12:00-2:30pm, Harbor Campus, Sched No 759405

Occupational Education

OccEd 201
Fundamentals of Occupational Education
This course is designed to provide provisionally approved vocational education teachers with a knowledge of the historical and philosophical foundations of vocational education and the content of federal and state laws pertaining to vocational education, and with the skills necessary to conduct occupational analysis, carry on a VICA program, and obtain assistance from local support groups and advisory committees. It is the first of six courses required by the Massachusetts Department of Education for approval of vocational education teachers.
Evening
May 30-July 12, MW 5:00-8:00pm, Watertown, Staff, Sched No 759750, 3 Credits

OccEd 202
Management of the Vocational Education Environment
This course is designed to train provisionally approved vocational educators in the theory and practice of effective classroom and laboratory management in a vocational setting. Instructional organization, shop organization, safety, first aid, and student management receive special emphasis. This is one of the six courses required by the Massachusetts Department of Education for full approval of vocational education teachers.
Prerequisite: OccEd 201.
Evening
May 30-July 12, TuTh 5:00-8:00pm, Watertown, Staff, Sched No 759950, 3 Credits

OccEd 204
Teaching Methods in Vocational Education II
A continuation of OccEd 203.
Evening
May 30-July 12, TuTh 5:00-8:00pm, Watertown, Staff, Sched No 760157, 3 Credits.
May 30-July 12, TuTh 5:00-8:00pm, Bourne, Staff, Sched No 760202, 3 Credits.
May 30-July 12, MW 5:00-8:00pm, Franklin, Staff, Sched No 760252, 3 Credits.

OccEd 502
Vocational Education Program for Special Needs Students
This course introduces contemporary approaches to vocational education for students with special needs. Topics include the nature of handicapping conditions, state and federal regulations that deal with students with handicaps, educational planning for these students, and the social issues involved in instructing special needs students.
Morning
July 17-August 2, MTuWThF 9:00am-12:00noon, Hubert Humphrey Occupational Resource Center, Staff, Sched No 760452, 3 Credits.

Philosophy

Phil 100
Introduction to Philosophy
An introductory examination of the problems and scope of philosophy.
Distribution Area: Philosophical and Humanistic Studies.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus M/2/417, Staff, Sched No 763476, 3 Credits
Midday/Afternoon
May 30-July 12, MW 1:30-4:30pm, Harbor Campus M/2/417, Staff, Sched No 763454, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/1/428, Staff, Sched No 763460, 3 Credits
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus M/1/428, Sched No 763482, 3 Credits

Phil C108
Moral and Social Problems
Important moral and social issues of current concern are examined and debated. The course covers several problems each semester from a list including criminal punishment, war, abortion, racism, violence, the death penalty, private property, and sexism.
Distribution Area: Philosophical and Humanistic Studies.
Morning
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus M/2/417, Staff, Sched No 763159, 3 Credits
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/417, Staff, Sched No 763054, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus M/1/418, Staff, Sched No 763109, 3 Credits
July 17-August 24, TuTh 6:00-9:00pm, Downtown Center 510, Staff, Sched No 763204, 3 Credits

Phil 120
Introduction to Logic
The forms of valid reasoning, deductive and inductive, and their role in reflective thinking; formal logic, truth functions, quantifiers, proofs of formal adequacy, the classical problem and new riddle of induction, reasoning with probabilities, and elements of game theory.
Distribution Area: Mathematics and Computer Languages.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/2/417, Staff, Sched No 763882, 3 Credits
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus M/2/419, Staff, Sched No 763898, 3 Credits

Phil C209
Individual and Community
This course is a thematic introduction to methods and ideas central to philosophical and humanistic inquiry. The course will take up a series of ideas and thinkers linked by their relation to the theme of the individual in his or her relation to the community. Readings introduced in this course provide a suitable conceptual foundation for a student's inquiry into basic intellectual assumptions and questions of value.
Distribution Area: Philosophical and Humanistic Studies.
Midday/Afternoon
July 17-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/417, Staff, Sched No 763343, 3 Credits

Phil 210
Philosophy of Education
Philosophical ideas and concepts relevant to the nature and aims of education.
Distribution Area: Philosophical and Humanistic Studies.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/419, Staff, Sched No 764208, 3 Credits

Phil 222
Moral Issues in Medicine
Concepts of health, illness, healing, under different paradigms of medicine. Is medicine an art or a science? Impact of medical technology on human life, death, what is considered "natural," with attention to issues in human reproduction (e.g., in vitro fertilization, conception, abortion). Questions of authority, accountability in the doctor-patient relationship, patient advocacy, self-help, right to health care or to refuse treatment. Social and political questions of health care organization.
Distribution Area: Philosophical and Humanistic Studies.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/1/614, Staff, Sched No 764408, 3 Credits

Physical Education

PE 161
Archery
This course is open both to novices and to intermediate players who wish to improve their skills. The course introduces the basic rules and techniques of archery.
Note: the fee for this one-credit course is $105.00.
Morning
May 30-July 12, MW 10:00-11:30am, Harbor Campus M/1/Gym, Mr Saitta, Sched No 760852, 1 Credit

PE 176
Softball
This course is open both to novices and to intermediate players who wish to improve their game. The course introduces the basic rules and techniques of softball.
Note: the fee for this one-credit course is $105.00.
Morning
May 30-July 12, TuTh 10:00-11:30am, Harbor Campus M/1/Gym, Mr Saitta, Sched No 761056, 1 Credit

PE 182
Volleyball
This course is open both to novices and to intermediate players who wish to improve their game. The course introduces the basic rules and techniques of volleyball.
Note: the fee for this one-credit course is $105.00.
Midday/Afternoon
May 30-July 12, MW 11:45am-1:45pm, Harbor Campus Clark Center, Mr Thomas, Sched No 761256, 1 Credit

PE 256
Lifetime Fitness
This course helps individual students establish, evaluate, and maintain an appropriate and desirable level of fitness. The focus is on individualized instruction that also takes into consideration the needs of the disabled, the elderly, the overweight, and pregnant women. The course includes both lecture and laboratory components.
Note: A release from a physician is required for students who are over 35 years old or disabled.
Evening
May 30-July 12, TuWTh 6:00-8:00pm, Harbor Campus W/1/058, Mr Thomas, Sched No 761456, 3 Credits

PE 321
Physiology of Exercise
Students in this course are introduced to the physiology of exercise through a review of basic anatomy and physiology considered in relation to physical activity. Students develop a scientific basis for understanding the physiological responses of the human organism to exercise, and consider practical applications of this understanding.
Prerequisite: Biol 207 and 208.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/058, Mr Thomas, Sched No 761656, 3 Credits

PE/Dnc 146
Dance Fitness: Theory and Lab
A skills course at the introductory level.
Note: the fee for this one-credit course is $105.00
Midday/Afternoon
May 30-June 29, TuTh 11:45am-1:45pm, Harbor Campus, Clark Center, Ms Pappalardo, Sched No 762050, 1 Credit

PE/Dnc 150
Jazz I: Theory and Lab.
A skills course at the introductory level.
Note: the fee for this one-credit course is $105.00
Midday/Afternoon
May 30-June 29, MW 11:45am-1:45pm, Harbor Campus, Clark Center, Ms Pappalardo, Sched No 762250, 1 Credit

PE Hlt 102
Health Science/Fitness
This course stresses scientific information and the development of health practices that contribute to effective living; and the personal assessment of fitness.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/058, Mr Saitta, Sched No 762650, 3 Credits

Physics

Phys 107
College Physics I
Non-calculus introductory physics for life-science students and others with a program requirement for a year of physics at this level. Topics include mechanics, fluids, wave motion, kinetic theory of gases, temperature, and heat. Students should enroll concurrently in Phys 181 unless exempted by the instructor.
Prerequisite: Math 130 or permission of instructor.
Distribution Area: Natural Sciences.
Morning
Lect: May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus S/1/006, Staff, Sched No 764808, 3 Credits
Disc: MW 10:00-10:50am, Harbor Campus S/2/062, Sched No 764858
Disc: TuTh 10:00-10:50am, Harbor Campus S/2/062, Sched No 764903
Disc: MW 11:00-11:50am, Harbor Campus S/2/062, Sched No 764953
Registration for daytime discussion sections is tentative; permanent assignments will be made on the first day of class. For information, call 929-7760.
Evening
Lect: May 30-July 12, MTuWTh 5:30-7:00pm, Harbor Campus M/2/423, Staff, Sched No 764814, 3 credits
Disc: MW 7:10-8:50pm, Harbor Campus M/2/423, Sched No 764969

See "Location Key" on page 26 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Phys 108
College Physics II
A continuation of Phys 107. Topics include thermodynamics, electricity and magnetism; optics; and a preview of modern physics. Students should enroll concurrently in Phys 182 unless exempted by the instructor.
Prerequisite: Phys 107 or permission of instructor.
Distribution Area: Natural Sciences.
Morning
Lect: July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus S/1/006, Staff, Sched No 765157, 3 Credits
Disc: MW 10:00-10:50am, Harbor Campus S/2/062, Sched No 765202
Disc: TuTh 10:00-10:50am, Harbor Campus S/2/062, Sched No 765252
Registration for daytime discussion sections is tentative; permanent assignments will be made on the first day of classes. For information, call 929-7760.
Evening
Lect: July 17-August 24, MTuWTh 5:30-7:00pm, Harbor Campus M/2/423, Staff, Sched No 765163, 3 Credits
Disc: MW 7:10-8:50pm, Harbor Campus M/2/423, Sched No 765268

Phys 113
Fundamentals of Physics I
The first semester of calculus-level introductory physics. Topics include mechanics, hydrodynamics, waves, kinetic theory, and heat. Students should enroll concurrently in Phys 181 unless exempted by the instructor.
Corequisite: Math 140. Corequisite for physics majors: Phys 181.
Distribution Area: Natural Sciences.
Morning
Lect: May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/1/063, Staff, Sched No 765452, 4 Credits
Disc: MW 10:00-11:40am, Harbor Campus W/1/063, Sched No 765557
Disc: TuTh 10:00-11:40am, Harbor Campus W/1/063, Sched No 765602
Students who register for the daytime lecture must also register for a daytime discussion section and, if taking a lab (Phys 181), for a daytime lab section. Registration for daytime discussion sections is tentative; permanent assignments will be made on the first day of classes. For information, call 929-7760.
Evening
Lect: May 30-July 12, MTuWTh 5:30-7:00pm, Harbor Campus W/1/063, Staff, Sched No 765507, 4 Credits
Disc: MW 7:10-8:50pm, Harbor Campus W/1/063, Sched No 765652
Students who register for the evening lecture must also register for an evening discussion section and, if taking a lab, for an evening lab section.

Phys 114
Fundamentals of Physics II
The second semester of calculus-level introductory physics. Topics include thermodynamics, electricity and magnetism, geometrical and wave optics. Students should enroll concurrently in Phys 182 unless exempted by the instructor. Note: Phys 114 may be substituted for Math 260 as a recommended prerequisite for Math 240.
Corequisite: Math 141. Corequisite for physics majors: Phys 182.
Prerequisite: Phys 113 or permission of instructor.
Distribution Area: Natural Sciences.
Morning
Lect: July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus W/1/063, Staff, Sched No 765852, 4 Credits
Disc: MW 10:00-11:40am, Harbor Campus W/1/063, Sched No 765957
Disc: TuTh 10:00-11:40am, Harbor Campus W/1/063, Sched No 766006
Students who register for the daytime lecture must also register for a daytime discussion section and, if taking a lab (Phys 182), for a daytime lab section. Registration for daytime discussion sections is tentative; permanent assignments will be made on the first day of classes. For information, call 929-7760.
Evening
Lect: July 17-August 24, MTuWTh 5:30-7:00pm, Harbor Campus W/1/063, Staff, Sched No 765907, 4 Credits
Disc: July 5-August 3, MW 7:10-8:50pm, Harbor Campus W/1/063, Sched No 766056
Students who register for the evening lecture must also register for an evening discussion section and, if taking a lab, for an evening lab section.

Phys 181
Physics Laboratory I
Exploration of basic physical phenomena through laboratory work. Experiments in kinematics, mechanics, and hydrostatics. This course is designed to accompany either level of introductory physics.
Corequisite: Phys 107 or 113.
Midday/Afternoon
May 30-July 12, M 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 766256, 1 Credit
May 30-July 12, Tu 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 766301, 1 Credit
May 30-July 12, W 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 766351, 1 Credit
May 30-July 12, Th 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 766406, 1 Credit
Students registering for a daytime lab section must also have registered for a daytime lecture and discussion section.
Evening
May 30-July 12, Tu 7:10-9:40pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 766456, 1 Credit
Students registering for an evening lab section must also have registered for an evening lecture and discussion section.

Phys 182
Physics Laboratory II
Exploration of basic physical phenomena through laboratory work. Experiments in thermodynamics, electricity, magnetism, and optics. This course is designed to accompany either level of introductory physics.
Corequisite: Phys 108 or 114.
Midday/Afternoon
July 17-August 24, M 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 766656, 1 Credit
July 17-August 24, Tu 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 766701, 1 Credit
July 17-August 24, W 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 766751, 1 Credit
July 17-August 24, Th 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 766806, 1 Credit
Students registering for a daytime lab section must also have registered for a daytime lecture and discussion section.
Evening
July 17-August 24, Tu 7:10-9:40pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 766856, 1 Credit
Students registering for an evening lab section must also have registered for an evening lecture and discussion section.

Political Science

PolSci 122
Government and Politics of the United States
The three main branches of the national government, federalism, political parties, interest groups, and governmental functions.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus M/2/417, Mr Feinstein , Sched No 767505, 3 Credits
Midday/Afternoon
July 17-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus M/1/428, Mr Ward , Sched No 767555, 3 Credits

PolSci C123
Political Ideas of the Twentieth Century
Major political viewpoints of the present, including conservatism, liberalism, Marxism, and fascism.
Distribution Area: Social and Behavioral Sciences.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus M/1/428, Mr Langley, Sched No 767250, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus M/2/621, Mr Rosow, Sched No 767311
July 17-August 24, MW 6:00-9:00pm, Harbor Campus M/1/428, Ms Peters, Sched No 767305, 3 Credits

PolSci 201
Comparative Politics of Industrialized Societies
Introductory survey of political systems in the industrialized world, including the United States, Europe and Japan.
Distribution Area: Social and Behavioral Sciences.
Midday/Afternoon
May 30-July 12, MW 1:30-4:30pm, Harbor Campus M/2/428, Mr Rosow, Sched No 767666, 3 Credits

PolSci 203
Public Policy
The process of policy making in Washington and the manner and effects of policy implementation in states and localities.
Distribution Area: Social and Behavioral Sciences.
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus M/2/419, Mr Ward, Sched No 767800, 3 Credits

PolSci 220
International Relations
Through the examination of past and current international events, this course identifies basic principles and concepts which explain the behavior of nations; and it provides an introduction to the general area of social and behavioral sciences.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/2/419, Mr Langley, Sched No 768004, 3 Credits
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus M/1/614, Ms Peters, Sched No 768054, 3 Credits

PolSci 341
Metropolitan Politics
Municipal politics, organization, and functions; special attention to the impact of recent social and economic changes on cities; and to suburban and intergovernmental politics in metropolitan regions.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/420, Mr Feinstein, Sched No 768254, 3 Credits

Special Program: Social Science Field Study in Cuernavaca, Mexico

This special program is designed for undergraduate students seeking a firm understanding of international political and economic issues. It entails eight weeks of study and research and a final project. In the first four weeks at UMass/Boston, participants enroll in PolSci 371 and 375 (listed below). During the second four weeks participants live in Cuernavaca, Mexico, and investigate political and development issues through field trips, lectures, other group experiences, and the completion of a final project.

Enrollment in PolSci 371 and 375 is open to students not participating in the special program on a space-available basis after students participating in the full program have enrolled. The application deadline for the field component is April 14, 1989. For further information about schedules, fees, or application procedures, please call the Division of Continuing Education at (617) 929-7900.

PolSci 371
Latin American Politics
An analysis of social structure and political behavior of various groups in Latin America, of a variety of forms of political participation at grass roots and national levels, and of the influence of technologically advanced countries on the politics of Latin America.
May 30-June 29, MTuWTh 8:30-10:30am, Harbor Campus M/3/129, Mr Spence, Sched No 768454, 3 Credits

PolSci 375
Third World Development
Investigation of theories of interdependence, dependency, and neocolonialism. Special attention to North/South relations, various approaches to development and forms of assistance provided by the industrial countries, resource problems, and other political and developmental issues facing North and South.
Midday/Afternoon
May 30-June 29, MTuWTh 11:00am-1:00pm, Harbor Campus M/3/129, Mr Spence, Sched No 768654, 3 Credits

PolSci 484
Special Problems In the Field of Politics I
Seminar in the field of practical politics generally taught by professional politicians.
Prerequisite: Permission of instructor.
By Arrgt, Mr Greer, Sched No 768854, 3 Credits

PolSci 488
Field Work In Politics
Carefully supervised field work, available only to a limited number of qualified students in any one semester. Written prospectus of the product, periodic conferences with a faculty advisor, and appropriate written work required.
Prerequisites: Completion of a relevant course, and permission of instructor.
By Arrgt, Mr Greer, Sched No 769103, 3 Credits
By Arrgt, Mr Spence, Sched No 768058, 3 Credits

PolSci 590
Field Practicum in Politics
Placement in a government or political agency to help students integrate course work with practical training.
Prerequisite: Permission of instructor.
By Arrgt, Mr Greer, Sched No 769503, 9 Credits

What's the meaning of this?
Find out in Ling Z151,
Elementary American Sign Language.
See page 11.

Psychology

Psych 101
Introductory Psychology
A general survey of selected content areas in psychology, including personality and human development, physiological psychology, learning, intelligence, heredity and environment, motivation and emotion.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus M/1/608, Staff, Sched No 770100, 3 Credits
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus M/1/608, Staff, Sched No 770205, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus, M/1/608 Staff, Sched No 770150, 3 Credits
July 17-August 24, TuTh 6:00-9:00pm, Downtown Center 507, Staff, Sched No 770255, 3 Credits

Psych 102
Introduction to Behavioral Research
An introduction to the ways of discovering, describing, and making warranted assertions about aspects of people and social life. The chief objectives are 1) to help students develop the skills and knowledge necessary to become intelligent critics of research in the behavioral and social sciences, and 2) to give them a rudimentary understanding of the design and evaluation of scientific research. Statistical material is treated in a conceptual manner. Classroom work and course examinations concentrate equally on research design and research evaluation.
Prerequisite: Psych 101.
Distribution Area: Social and Behavioral Sciences.
Morning
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus M/1/608, Staff, Sched No 770455, 3 Credits

Psych 200
Personality
Conceptions of human nature are examined in light of various theories of personality. This course focuses on the theories of Freud, Adler, Sullivan, Erikson, Kelly, ego psychologists, and other theorists presenting behavioristic and humanistic perspectives. Among the topics to be addressed are personality structure and its development; stress and coping; neurotic styles; human motives and their measurement.
Prerequisite: Psych 101.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/1/608, Ms Weisgerber, Sched No 770655, 3 Credits
Evening
July 17-August 24, MW 6:00-9:00pm, Harbor Campus M/1/608, Ms Cicchetti, Sched No 770750, 3 Credits
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/2/621, Staff, Sched No 770700, 3 Credits

Psych 215
Psychopathology
Etiology, dynamics, and treatment of psychopathology.
Prerequisite: Psych 101.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus M/2/621, Ms Weisgerber, Sched No 770950, 3 Credits

Psych 230
Social Psychology
A scientific attempt to understand and explain how the thought, feeling, and behavior of individuals are influenced by the actual, imagined, or implied presence of others; the course focuses on the drama of social interaction.
Prerequisite: Psych 101.
Distribution Area: Social and Behavioral Sciences.
Morning
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus M/2/621, Staff, Sched No 771154, 3 Credits

Psych 236
The Psychology of Women
Psychological theories about women from Freud to the present are examined; emphasis is on biological and socio-cultural perspectives as they have influenced the development of a psychology of women. Special attention is paid to the development process and the unique issues and concerns of the female infant, child, adolescent, young adult and older woman.
Prerequisite: Psych 101 is required; Psych 230 and 241 are strongly recommended.
Distribution Area: Social and Behavioral Sciences.
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus M/1/617, Ms Wainwright, Sched No 771354, 3 Credits

Psych 241
Infancy and Childhood Development
This course explores human development from infancy to middle childhood, i.e., from childbirth to ages seven or eight. Major emphasis is placed on early perceptual, cognitive, social, and affective development bearing the following questions in mind: How does the world of space and objects appear to the infant? How does he or she acquire knowledge and discover reality? How does the child experience the world of people and develop a sense of self? How does the child develop attachments to others and what role is played by the significant people in his or her life?
Prerequisite: Psych 101.
Distribution Area: Social and Behavioral Sciences.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus M/3/617, Mr Bateman, Sched No 771554, 3 Credits
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus M/2/621, Ms Miller, Sched No 771609, 3 Credits

Psych 242
Adolescence
This course is designed to acquaint students with psychological characteristics of adolescent development, theoretical approaches to adolescence, and experimental studies of the causes of a variety of behaviors during adolescence. The course also focuses on major problems and characteristics of adolescents in modern society.
Prerequisite: Psych 101.
Distribution Area: Social and Behavioral Sciences.
Midday/Afternoon
May 30-July 12, TuTh 1:30-4:30pm, Harbor Campus M/3/617, Ms Dziak, Sched No 771809, 3 Credits
July 17-August 24, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/621, Ms Dziak, Sched No 771904, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Downtown Center 507, Mr Kinscherff, Sched No 771859, 3 Credits

Psych 250
Learning and Memory
An introduction to current views of behavioral change, learning, and remembering. The course focuses on concepts, theoretical issues, and applications of current research.
Prerequisite: Psych 101.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus M/2/621, Ms Au, Sched No 772108, 3 Credits

Psych 260
Physiological Psychology
An examination, in depth, of selected topics in physiological psychology, including the evolution of the vertebrate nervous system, communication in the central nervous system, emotion, reward and punishment, and physiological methodology.
Prerequisite: Psych 101 or Biol 111.
Distribution Area: Social and Behavioral Sciences.
Morning
July 17-August 24, MTuWTh 10:00-11:45am, Harbor Campus M/2/419, Ms Kohak, Sched No 772308, 3 Credits

Psych Z270
Statistics
The applied study of the scientific method in the behavioral sciences. Fundamental statistical concepts and techniques are surveyed and used, with primary emphasis on the logic underlying the use of descriptive and inferential tools in scientific inquiry. Topics include parametric and nonparametric statistics, e.g., correlation and analysis of variance.
Prerequisites: Psych 101, and either high school algebra or Math 124.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/2/621, Ms Wainwright, Sched No 772508, 3 Credits.

Psych 302
Human Motives and Emotions
An examination of major issues in the area of human motives and emotions. Theoretical analyses from the early theories of James, Dewey, Freud, and Watson to contemporary studies employing the evolutionary, behaviorist, and cognitive perspectives. Topics include the relationship among motives, emotions, and personality, and the rationality of the emotions.
Prerequisites: Psych 101 and 200.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/2/420, Ms Cicchetti, Sched No 772708, 3 Credits

Psych 338
Community Psychology
Contributions of psychology to the understanding of human communities. Community mental health, ecological, and social structural approaches to community psychology are examined.
Prerequisites: Psych 101, and either Psych 215 or Psych 230.
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus M/1/428, Staff, Sched No 772908, 3 Credits.

Study of Religion

RelStd C104
Socrates, Jesus & Buddha
A study of three great paradigmatic figures and the different ways of life and views of reality that they represented. Attention to the social-cultural contexts in which they emerged; critical evaluation of Socrates and Jesus as sources of Western values; and exploration of why the Buddha has recently become an attractive alternative.
Distribution Area: Philosophical and Humanistic Studies.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/1/617, Mr Lafargue, Sched No 773302, 3 Credits

RelStd 109
Symbol, Myth, and Ritual
An introductory and survey course in religion that takes a comparative and interdisciplinary approach. Beginning with primitive and archaic religion (including myth and ritual), it concentrates on two or three of the world-historical religions (e.g., Buddhism, Judaism, Christianity — including mysticism and millenarianism) and on contemporary religious phenomena.
Distribution Area: Philosophical and Humanistic Studies.
Midday/Afternoon
May 30-June 29, MTuWTh 11:45am-1:45pm, Harbor Campus M/1/212, Mr Lafargue, Sched No 773502, 3 Credits

RelStd 280
Religion and Science
Religions have a way of viewing the world that is challenged by the modern sciences. This course examines such issues as creation versus evolution; materialism versus "spiritual" beliefs; explanations of religious beliefs as results of psychological or sociological factors; and others. It also examines the response of religious thinkers to these challenges, especially the move away from literature toward symbolic interpretations of religious beliefs. Students are encouraged to think out their own position on these questions.
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus M/1/617, Mr LaFargue, Sched No 773568, 3 Credits

Sociology

Sociol 101
Introduction to Sociology
The structure of society, cultural patterns, and group life. The individual and socialization, groups, institutions, social systems, social change.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/2/126, Mr Jacobs, Sched No 774756, 3 Credits
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/2/126, Mr Michels, Sched No 774851, 3 Credits
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/1/057, Ms Useem, Sched No 774801, 3 Credits
July 17-August 24, TuTh 6:00-9:00pm, Downtown Center 517, Mr Leclair, Sched No 774906 3 Credits

Sociol C140
Life Cycle
This course focuses on youth, adulthood, and old age; it examines the way in which, during different stages in life, different kinds of relationships rise and fall in importance. It considers the meaning of work at different stages and, in general, how individuals and groups cope with change.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus W/2/127, Mr Kefayati, Sched No 774506, 3 Credits
Evening
July 17-August 24 MW 6:00-9:00pm, Harbor Campus W/1/062, Staff, Sched No 774556 3 Credits

Sociol 160
Social Problems
A course concentrating on institutional formation and change. Specifically, it includes the definition and explanation of social problems, individual, group and governmental responses to them, implications of social policy, in-depth case studies, and discussion of contemporary social problems.
Prerequisite: Sociol 101.
Distribution Area: Social and Behavioral Sciences.
Morning
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus W/2/127, Ms Thompson, Sched No 775100, 3 Credits

Sociol 242
Family
A comparative and historical analysis of family systems. Emphasis on the development and future prospects of the nuclear family in middle-class industrial society.
Prerequisite: Sociol 101.
Distribution Area: Social and Behavioral Sciences.
Midday/Afternoon
July 17-August 24, TuTh 1:30-4:30pm, Harbor Campus W/1/127, Mr Kamara, Sched No 775350, 3 Credits
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/062, Ms Adriance, Sched No 775300, 3 Credits

Please be sure that you enter the correct schedule number and starting date for each course when you complete your registration form. Improperly completed forms cannot be accepted, and therefore will be returned unprocessed.

Sociol 261
Social Deviance and Control
The social conditions of individual and group behavior disorders, deviant subcultures, and social control.
Prerequisite: Sociol 101
Distribution Area: Social and Behavioral Sciences
Morning
July 17-August 24, MTuWTh 10:00-11:30am, Harbor Campus W/1/047, Ms Warner, Sched No 775550, 3 Credits

Sociol 281
Society and the Individual
Basic survey of the social environment of individuals.
Prerequisite: Sociol 101.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/047, Mr Movahedi, Sched No 775750, 3 Credits

Sociol 341
Elements of Social Theory
Reading and discussion of basic sociological works in theory. Relevance of earlier and contempoary sociological interests and research.
Prerequisites: Sociol 101 and junior standing.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus W/1/062, Ms Adriance, Sched No 775950, 3 Credits

Sociol 342
Aging and Society
An examination of theories and research on aging and society. The course is organized into two sections. The first explores the general relationship of the aging process and the aged to the social, economic, and political systems in a youth-oriented and work-oriented society. The second draws upon cross-national and cross-cultural material.
Prerequisite: Sociol 101 and junior standing.
Evening
July 17-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/062, Mr Kamara, Sched No 776154, 3 Credits

Sociol 351
Methods of Sociological Research
Design of sociological research and methods of inquiry. Organization and analysis of data development of research projects.
Prerequisites: Sociol 101 and junior standing.
Midday/Afternoon
May 30-June 29, MTuWTh 11:45am-1:45pm, Harbor Campus W/2/126, Mr Movahedi, Sched No 776354, 3 Credits

Sociol 444
Cooperative Education Field Experience in Sociology
Paid placements in public and private agencies related to sociology, arranged through the Program in Cooperative Education. Credit is awarded on the basis of independent research and reporting related to the field work. Learning contracts and number of credits are arranged with a faculty supervisor in the department. Placements are for a 6-month period.
Prerequisite: 9 credit hours of sociology, at least 3 of which must be directly related to the field placement.
By arrgt. Ms Thompson, Sched No 776754, 6 Credits

Spanish

Span 101
Elementary Spanish I
For students with no creditable training in Spanish. An intensive study of the four language skills based on an audio-lingual approach.
Distribution Area: Foreign Languages.
Morning
Lect: May 30-June 29, MTuWTh 8:00-9:50am, Harbor Campus M/2/616, Staff, Sched No 777253, 4 Credits
Lect: May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus M/2/428, Staff, Sched No 777158, 4 Credits
Lab: May 30-July 12, By Arrgt, Lab Fee: $10.00, Sched No 777308
Evening
Lect: May 30-July 12, MTuTh 6:00-8:00pm, Downtown Center 503, Staff, Sched No 777203, 4 Credits
Lab: May 30-July 12, By Arrgt, Lab Fee: $10.00, Sched No 777358

Span 102
Elementary Spanish II
A continuation of Spanish 101.
Prerequisite: Span 101 or equivalent.
Distribution Area: Foreign Languages.
Morning
Lect: July 5-August 3, MTuWTh 8:00-9:50am, Harbor Campus M/2/616, Staff, Sched No 777653, 4 Credits
Lect: July 17-August 24, MTuWTh 10:00am-11:30am, Harbor Campus M/2/428, Staff, Sched No 777558, 4 Credits
Lab: July 17-August 24, By Arrgt, Lab Fee: $10.00, Sched No 777708
Evening
Lect: July 17-August 24, MTuTh 6:00-8:00pm, Downtown Center 503, Staff, Sched No 777603, 4 Credits
Lab: July 17-August 24, By arrgt, Lab Fee: $10.00, Sched No 777758

Span 201
Intermediate Spanish I
An oral and written review and further study of the language skills with readings in Spanish and Spanish-American literature and culture.
Prerequisite: Span 102 or equivalent.
Distribution Area: Foreign Languages.
Morning
May 30-July 12, MTuWTh 8:15-9:45am, Harbor Campus M/2/428, Staff, Sched No 778352, 3 Credits

Span 202
Intermediate Spanish II
A continuation of Spanish 201.
Prerequisite: Span 201 or equivalent.
Distribution Area: Foreign Languages.
Morning
July 17-August 24, MTuWTh 8:15-9:45am, Harbor Campus M/2/428, Staff, Sched No 778607, 3 Credits

Special Program: Spanish in Cuernavaca, Mexico

June 10-July 8
Every year the Spanish and Portuguese Department of the University of Massachusetts at Boston offers a program focusing on intermediate Spanish, taught in Cuernavaca. Most participants are expected to take intermediate Spanish I and intermediate Spanish II although, with permission of the department, applicants at other levels of achievement in the language may be accepted for the program.

Cuernavaca is a beautiful town in the mountains an hour's drive from Mexico City on the road to Taxco. While in Cuernavaca, students live with Mexican families in a totally Spanish-speaking environment. The program fee includes three meals a day and opportunities for field trips on weekends.

Groups are restricted in size to 4-6 students; they are taught by native speakers and supervised by a member of UMass/Boston's Spanish and Portuguese Department. Participants must register for two courses. Successful students are awarded up to six undergraduate credits for their participation in the program. (A non-credit option is available with prior permission of the department).

The Division of Continuing Education is making arrangements to obtain group rate fares for the flight from Boston to Mexico City and return. They will be available on a limited, first come-first served basis.

The total cost of the program — course fees, room, and board — is $1045.00 (airfare not included).

Persons wishing to enroll in the program should request application materials from UMass/Boston's Division of Continuing Education by calling (617) 929-7900. The deadline for application is May 6, 1989.

Theatre Arts

ThArt Z125
Speech and Movement
Basics of voice-training, diction-improvement, diaphragmatic breathing, movement work for the stage; characterization-movement and movement to develop stage presence.
Evening
July 17-August 24 MW 6:00-9:00pm, Harbor Campus M/2/008, Mr Armstrong, Sched No 783155, 3 Credits

ThArt Z236
Introduction to Acting I
Dramatic form as required in acting. A survey of various styles: Greek, Elizabethan, Restoration, and modern; the actor's function, with emphasis on recently evolved methods of acting, and on preparation of scenes in class.
Evening
May 30-July 12, TuTh 6:00-9:00pm, Harbor Campus M/2/008, Mr Armstrong, Sched No 783355, 3 Credits

Special Program: Theatre Arts on Nantucket

June 19—August 11
For more than twenty years, the Theatre Arts Department of UMass/Boston has offered summer programs in various aspects of theatre and film, on the island of Nantucket, to professionals and students. Comfortable residential accommodations are provided in the town of Nantucket in furnished apartments owned by the University. Classes are held at the historic Coffin School in the center of town.

This year's program consists of the following four-course sequence in playwriting, performance, and production:

ThArt 481A Script Analysis. By arrgt. Sched No 783555, 3 Credits
ThArt 481B Scene Study. By arrgt. Sched No 783755, 3 Credits
ThArt 482A Theatre Lab. By arrgt. Sched No 783955, 3 Credits
ThArt 482B Performance Studio. By arrgt. Sched No 784159, 3 Credits

This sequence gives participants the opportunity to examine and develop scripts, to translate dialogue into character development, and to integrate elements of performance preparation and production design into their work.

The fee for this twelve-credit course sequence, including housing, is $1475.00. A non-credit option is available by special permission.

To apply for acceptance, applicants should send a brief statement of their theatre experience and their academic history to

Dr. Louis Roberts, Chairman
Theatre Arts Department
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393

Preference will be given to UMass/Boston Theatre Arts students.

The deadline for application is April 14, 1989.
For further information, call or write: Division of Continuing Education, University of Massachusetts at Boston, Harbor Campus, Boston, MA 02125-3393, 617 929-7900

ThrArt 482C
Modern Dance Workshop
This course offers students an opportunity to practice and experiment with various forms of contemporary dance. Class work includes techniques basic to modern and jazz dance, as well as an emphasis on developing improvisational skills. Requirements include background reading and the performance of assigned projects.
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus M/2/008, Ms Tolbert, Sched No 784359, 3 Credits

Women's Studies

WoSt C100
Women and Society
An introductory, interdisciplinary course recommended as a first course in women's studies. Through lectures, readings, and discussions, students examine the origins of women's oppression; female and male sex roles; marriage and the family; women workers at home and in the labor force. Students relate course material to experiences in their own lives.
Distribution Area: Social and Behavioral Sciences.
Morning
May 30-July 12, MTuWTh 10:00-11:30am, Harbor Campus W/1/053, Ms Manton, Sched No 784759, 3 Credits

WoSt C150
Women, Culture, and Identity
An introductory-level course examining the origins of present attitudes about women, the situation of women in patriarchal cultures, and efforts by women to achieve a self-defined female identity. Drawing on materials from myth, religion, philosophy, anthropology, feminist analysis, literature, and autobiography, the course investigates cultural beliefs about woman's "nature" and role at different times and places, as well as attempts to explain the origins and persistence of woman's subordination, and women's efforts to define a new identity through political and creative activity.
Distribution Area: Philosophical and Humanistic Studies.
Midday/Afternoon
July 17-August 24, MW 11:45am-2:45pm, Harbor Campus W/1/058, Ms Cordill, Sched No 784959, 3 Credits

WoSt 180a
Women, Work, and Stress
Paid work. Housework. Wife work. Mother work. Women's work is never done and is a primary source of stress and illness, a possible source of joy and well-being. This course explores relationships among women's work experiences, stress, and their health. Special attention is given to class members' own work and stress issues.
Evening
July 18-August 10, TuTh 6:00-9:00pm, Harbor Campus W/1/056, Ms Cordill, Sched No 785153, 2 Credits

WoSt 180c
Eating Disorders
An analysis of theories about why women are often troubled by body image, weight, and eating issues.
Evening
August 15-August 24, TuTh 6:00-9:00pm, Harbor Campus W/1/056, Ms Cordill, Sched No 785353, 1 Credit

WoSt 220
Women and the Media
How the historical evolution and commercial orientation of mass communications media have helped shape the social content of advertising, entertainment fictions, and news. Particular emphasis is placed on the impact of mass communications media on children's and adults' images of women and men. Students learn to distinguish stereotypes from more complex characterizations; to analyze visual imagery for its conceptual and emotional messages; and to monitor the representations of women and other culturally subordinate groups in the print and broadcast media. Some consideration is given to the status of women and minorities in communications industries.
Prerequisite: WoSt C100 or C150 is recommended though not required.
Distribution Area: The Arts.
Midday/Afternoon
May 30-July 12, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/058, Ms Lindsey, Sched No 785553, 3 Credits

WoSt 230
Women in Pre-Industrial Society
Through an examination of four contrasting cultures, students are introduced to the variations in women's status and situations in traditional societies. The course also looks at the contributions of both anthropology and feminism to the study of female power in societies.
Distribution Area: Historical and Cultural Studies.
Evening
May 30-July 12, MW 6:00-9:00pm, Harbor Campus W/1/060, Ms Morse, Sched No 785753, 3 Credits